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   atnggatcng
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tgtttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggecea acagtgetee aangngggaa gn
      ್ಗ ಕರ್ಷ-೯ ಚಿತ್ರಗಳ ನಾರು ಚ
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tgcctccgtc ccntgnccag ttggganccc agttcaaccc ctnaaccttc nagttaattc 420
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                                                                                                                       TARARTO, A LAGRANCE COMPLIANCE
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                                                                                                                            1.5
   <220> height of company district in a part of the property 
   <221> misc feature (a of the of the analysis) and the analysis of anything the artists of the control of the co
   <222> (58) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48) 100 (48)
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 gettecetec aagaggaece eggggttece gagggaacee etetggagga ggaaacgtee 180
 agcaccgage tggagactgg cagtgtccca atccttcaat tggtgatttc tgctgtgatg 240
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gctacagtca acatettgat ntcactgtgc caactgcggt gcctgccctt canagecetg 180
cactttgttt thtcccctgg cttcatchac tacatcagtg gcacccctca tgctctgatt 240
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agattgacag catcagcgag agggcggggc acaagtgcat ggccactgag agtgtggacg 120
  gagagetgte aggetgeaat geegeeatee teaageggga gaccatgagg ceatecagee 180
  gtgtggccct gatggtgctc tgtgagaccc accgcgcccg catggtcaaa caccactgct 240
  gcccgggctg cggctacttc tgcacggcgg gcaccttcct ggagtgccac cctgacttcc 300
  gtgtggccca ccgcttccac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
  cccactgtgg ggaggatact tctgaagctc aagangtgac catccccggg gtgacggggt 420
  gacccaacgg ccggca
                                                                                                                                                    436
  <210> 672 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 
  <211> 504 . .
  <213> Homo sapiens
  <221> misc feature
  <223> n equals a,t,g, or c
  - 1255
  <22<u>0</u>> 2010 Leat 104
  <221> misc feature
  <2,2,2>. (32,), uman to the control of
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 <22<u>2</u>> (57)
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     --...
<220>
                          and the second of the second of the second
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<222> (347)
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     The second of the second
   <220>
   <221> misc feature
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   <223> n equals a,t,g, or c
    folia i un alla folia e fina per
  <220>
  <221> misc feature
  <222> (438)
  <223> n equals a,t,g, or c
     <220>
  <221> misc feature
  <222> (456)
  <223> n equals a,t,g, or c
        a murra da Aperte.
  <220>
  <221> misc feature - 0%
  <222> (457)
 <223> n equals a,t,g, or c
  T.1.13 to RESPONDENCES
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 <222> (460)
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  TO THE STATE OF SERVICE
 <220>- 1331
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          No. of Land Cares and
 <220>
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 <222> (465)
 <223> n equals a,t,g, or c
        ាលក្នុងការបានប្រធានធ្វេធ
 <220>
<221> misc feature
 <222> (468)
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                                                                                       and the second of the second o
          Contribution of Superior Contribution (Contribution)
<220> The second transfer to a
                                                                                                                                           . 😅 . . . . . . . . . . . . . . . .
                                                                                              <221> misc feature
                                                                                                   <222> (470)
                                                                                                <223> n equals a,t,g, or c
                                                                                                          in west of the
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<222> (478)
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 tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
 tgaagctggt gtgaccttca catngatgga ncatggctga cttncncact atcctcttca 240
 catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
 ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
 ggngnaaagg antcaaggtt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
 ctnctgncan cagtgggncc atttttgggt attttnctn tnaantanan agggctantt 480
 tnatcttgtt gttgcagnct ttnc
                                                                    504
 <210> 673
 <211> 431
 <212> DNA
 <213> Homo sapiens
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<221> misc feature
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    <220>
    <221> misc feature
    <222> (113)
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   <220>
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   <222> (114)
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   <222> (412)
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   <221> misc feature
   <222> (422)
   <223> n equals a,t,g, or c
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  aactagtgga acccccaggg ctgcaggaat tcgggcacga ggnagagcgg acnngtgagc 120
  agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggcctagctt tacccgcccg 180
  cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
  aaggcatcaa gcaggtgtac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
  tetggatega tggtaetgga gaaggaetge getgeaagae eeggaeeetg gaeagtgage 360
  ccaagtgtgt ggaagagttg cctgagtgga atttcgatgg ctctagtact tnacagtctg 420
 anggitcag t
 <210> 674
 <211> 370 cuair a - 1/ 1/2
  <212> DNA
 <213> Homo sapiens
                                                                                                                                                                                           Commence of the control of the contr
 <220>
 <220>
<221> misc feature
                                                                                                                                               The stag state with
                                                                                                                                            Committee Commit
 <222> (22)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
<222> (23)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (29)
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<221> misc feature
<222> (310)
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ggaaggtgct titigcacitg ngtitaaaag tgitcattit cccgggcaag cagniggcac 120
aaggegaggt agecetetgt tgattggtgt aeggagtgaa cataaacttt etactgatea 180
cattoctata cictacagaa caggcaaaga caagaaagga agctgcaatc tototogngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
tgatgcaann gctgcataga acacaccaat cgcgtcatct ttctggaaga tgatgatgtn 360
<210> 675~
<211> 363
<212> DNATE - ATTUCAS
<213> Homo sapiens
<220> 10 12 THE TOTAL
<221> misc feature
<222> (5) 2 midla av 1 (1 ar a
<223> n equals a,t,g, or c
<220> " " u ...15123
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
        <221> misc feature
<223> n equals a,t,g, or c
      in the community
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (99)
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<220> - - -
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cagtneette aageetacaa geecegagag aatgatgant tggeactgga gaaageegae 120
gtggtgatgg tgactcacca gagcagtgca cggctggctg gagggcgtga ggctctcaqa 180
cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
gtgacacaga acctgaaggg aagcttcatc gagtgcaaga cttgccaaac tacagctngt 300
gggaacagca agcctnantt ttctnctgna gaaggagttt tcgtgagctg gaagaacaag 360
ttg
<210> 676
<211> 441
<212> DNA
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<213> Homo sapiens
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<222> (353)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (397)
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<220> *****
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<222> (404)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (413)
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<222> (441)
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agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgca gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcca tgagcaacct ggtgccccc gtggagctgg ccaaccccga 300
aaaccagtte agagtggact acatectgag tgtgatgaac gtgcctgact ttnacttccc 360
tecegaatte tatgageatg ceaaggetet gtgggangat gaangagtge gtneetgeta 420
cgaacgctcc aacgaatacn n
                                                               441
<210> 677
<211> 550
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<213> Homo sapiens
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<222> (482) . ...
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<221> misc feature
<222> (484)
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<221> misc feature
<222> (487)
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<221> misc feature
<222> (523)
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<222> (542) -
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ggatcatcaa cgagcccacg gccgccgcca tcgcctacgg cctggacaga acgggcaagg 120
gggagcgcaa cgtgctcatc tttgacctgg gcgggggcac cttcgacgtg tccatcctga 180
cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacacccac ctgggtgggg 240
aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
gaggaccetg tegtecagea eccaggecag cetggagate gaetteettg ttttgaggge 420
atcgacttnt acacgttcat caccagggcg aaggttcgaa ggagctgtgc ttccgacctt 480
gntnccnaaa cacccctggg aaccccgtgg gaaaaaaggc ttnttgcgcc gaaaggccca 540
ancttgggac
<210> 678
<211> 435
<212> DNA
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         <220>
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         <222> .(55) <u>1</u> ... ... ... ... ... ...
         <223> n equals a,t,g, or c
         <220>
        <221> misc feature
        <223> n equals a,t,g, or c
       <220>
        <221> misc feature
        <222> (295)
        <223> n equals a,t,g, or c
        <220>
        <221> misc feature
       <222> (330)
       <223> n equals a,t,g, or c
       <220>
      <221> misc feature
       <222> (333)
       <223> n equals a,t,g, or c
                                  . - -
                                                                         The state of the s
       <221> misc feature
      <222> (344) .....
      <223> n equals a,t,g, or c
      <220>
      <221> misc feature
<222> (376)
      <223> n equals a,t,g, or c....
<220>
      <221> misc feature
      <222> (385)
      <223> n equals a,t,g, or c
     <220>
     <221> misc feature
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<222> (401) =

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<220>
<221> misc feature
<222> (423)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (434):.....
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (435) · ···· ... :
<223> n equals a,t,g, or c
          ...a Diditi . . .
<400> 678
tgcaggaaga gctcgtggaa gaggtggtgg ccccagtcaa aactggnaac caggnatata 60
gtaactattg gaatcaaggc tatggcaact atggatataa cagccaaggt tacggtggtt 120
atggaggata tggnctacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
tgaaggttcc tttgaggggg gctccgcccn ggncttaatt ggcnttccaa ctaaattttt 360
gggtatccag tccccnatgg gagtntgcgg tggggccccc nggagtttaa ttcggggtcc 420
ccntaaagga tttnn
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<211> 390
<221> misc feature
<222> (164)
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          <220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (287)
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<220>
<221> misc feature
<222> (330)
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<220>
 <221> misc feature
 <222> (333)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (371)
<223> n equals-a,t,g, or c
<221> misc feature
<222> (390)
<223> n'equals-a;t;g; or-ç-maxia historial mangino de spr- armognome de la
cggacgcgtg ggctctggcc cctggtcctg tcctgttctc caacatggtg tgtctgaagt 60:
tccctggaag ctcctgcatg gcagctctga cagtgacact gatggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtgggggaat accgggcggt gacgganctg gggcggccta 300
actccgaata ctggaacagc cagaaagacn ccngggacag aagcgggccg cggtggacac 360
ctactgcaga nacactacgg ggttgggtgn
<210> 680
<211> 343
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
       <222> (8)
<223> n equals a,t,g, or c
  and the second of the second of
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (18)
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<222> (240)
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 . _ .
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 <220>- 174 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 17
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 cagattatgc cattgccagg cgcatagtag atttgcattc aagaattgag gaatcaattg 120
 nnaatatota tnocotogat gatatoagaa gatatotnon otatgoaaga aagtntaaac 180
 ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
 aagatgggtt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
 gccttggatc cgtctctctt ggaagccaat ngctccgggt gcc
 <210> 681
 <211> 523
 <212> DNA:
 <213> Homo sapiens
           <220>
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<222> (1)
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<220>
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<222> (17)
<223> n equals a,t,g, or c
 .. . . . . .
<220>
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<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
                                        -548
<220>
                     <221> misc feature
                          <222> (72)
<223> n equals a,t,g, or c
                         The second process of the continuous second con-
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c
<220> ·
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503) ·
<223> n equals a;t,g, or c
<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c
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natcttccgt gacactnttg anggnacgcc cgcaggtacc cggtccggaa ttcccgggtc 60
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gacccacgcg tncgcccaat tttaccaatc tatcacccta tagaagagct aatgttagta 120
    taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
    acaattaaca gcccaatatc tacaatcaac caacaagtca ttattaccct cactgtcaac 240
    ccaacacagg catgctcata aggaaaggtt aaaaaaaagta aaaggaactc ggcaaatctt 300
    accecçectg tttaccaaaa acatcacete tagcatcace agtattagag geacegeetg 360
    cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
    tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
    aaccagngaa attgacctgn cgngaagagg cggnatgaca cag
  <211> 713
   <212> DNA
   <213> Homo sapiens
  <220> ... + ... + ... + ... + ... + ...
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  <222> (423)
  <223> n equals a,t,g, or c
<220>
                                                                                             2.5.2
  <221> misc feature
  <222> (583)
  <223> n equals a,t,g, or c
 <220>
                                        1.4 . I. j. t.
  <221> misc feature
  <222> (595)
 <223> n equals a,t,g, or c
 <220>
                                        The second secon
 <221> misc feature
 <222> (605)
 <223> n equals a,t,g, or c
 <220> .
 <221> misc feature
 <222> (626)
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<22.0>
                                       Constitution to the second
<221> misc feature
<222> (633)
<223> n equals a,t,g, or c
<220> .
                                                    and the state of t
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c
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<221> misc feature

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<222> (646)
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aaatcttacc ccgcctgttt accaaaaaca tcacctctag catcaccagt attagaggca 120
ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgagggtt cagctgtctc 240
ttacttttaa ccagtgaaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aatttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaacccaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gecenetatt taaaaggtte gttggntcac gantaaaggn cetaentgaa etgagttean 660
aaccggagta aattccaagg cgggttttta tctaccttaa aattcccccc tgg
<210> 683.
<211> 289
<212> DNA
<213> Homo sapiens
<220>.
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<222> (6)
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<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (80)
<223> n equals a,t,g, or c.
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<220>
 <221> misc feature
 <222> (225)
 <22.3> n equals a,t,g, or c
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 <221> misc feature.
 <222> (237)
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<220>
 <221> misc feature
 <222> (240)
<223> n equalsca, t,g; or c
<220>
<221> misc feature:
<222> (252)
<223> n equals_a,t,g,.orrcr
<220>
<221> misc feature:
<222> (287.)
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<400> 683
tccccntact aaagngaaca aaagctgnag ctccaccgcg gtggcggccg ctctagaact 60
agtggatccc conggetgen tgaattegge acgageggea egaggecetg eggggtgtac 120
acccccgtt gcggctcggg cctgctctgc tacccgcccc gaggggtgga gaagcccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganatcga ggccatncan 240
gaaagcctgc anccctctga caaggacgag ggtgaccacc ccaacanca
<210> 684
<211> 464
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
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ggangagccc agccctggga ttttcaggtg gtttcatttg gtgaacagga ctgaacagag 60
agaactcacc atggaatttg ggctgagctg gctttttctt gtggctattt taaaaggtgt 120
```

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ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg gggggtccct 180
gagactetee tgtacagtet etggatteae etttegeaac tatgeeatga gttgggteeg 240
ccagggtcca gggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataacac 300
atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
gacagaacgt atgggtactg gctggtacgg acgaaatgac tact
<210> 685
<211>-545
<212> DNA
<213> Homo sapiens
     4 372.22
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<221> misc feature
the first transfer of the second second second second
<22.0>.
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
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<221> misc feature
<222> (326)
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<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c
<220> ·
<221> misc feature
<222> (438)
<223> n equals a;t,g, or c
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          <221> misc feature
          <222> (442)
          <223> n equals a,t,g, or c
          <220>
        <221> misc feature
        <222> (456)
        <223> n equals a,t,g, or c
                                                                            <220>
        <221> misc feature
        <222> (457)
        <223> n equals a,t,g; or constitution of the second of the
                                                                                                         Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of the Constant of th
       <220> The first that will be updated from a first that a particular section.
     <221> misc feature of at the contemporary service of the assisting
      <222> (505) The state of the state of the stage of the st
       <223> n equals a,t;g; or c.a.e.r mage of the content of the conten
                                                                            The control of the compact was the control of the c
      <220>
                                                                                                                                                                                                                      Control of the contro
     <221> misc feature
     <222> (509)
     <223> n equals a,t,g, or c
     <220>
                                                                   ق بشار باید از این
     <221> misc feature
     <222> (536)
     <223> n equals a,t,g, or c
   <400> 685
     attgantcon ttananacon cotttatacg actoactata gggaaagetg gtacgeetge 60
  aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg gaccgtcacc cctggagaga 120
  cggcctccat ctcctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
  tggattggta catgcagaag ccagggcagc ctccacagct cgtggtctat aggggttcca 240
  atcgggcctc cggggtccct gacaggttca gtggcggtgg atcaggcaca gattttacac 300
  ttagaatcac cacggtggag gctgangatg ttggcgttta ttactgcatg caagctctac 360
  aaagtccgta cacttttggc caggggacca agctggagat caaacgaact gtgggctgca 420
  ccatctgnct tcatcttncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
  gggggcctgc tgaataactt ctatnccana gaggcccaaa gtaccagtgg aaaggnggga 540
                                                                                                                                                                    the control of the co
  <210> 686
  <211> 496 ....
 <212> DNA
 <213> Homo sapiens...
<220>
<221> misc feature
<222> (358)
```

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (4.17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c
<220>
<221> misc: feature:
<222> (481)
<223> n equals a,t,g, or c.
<220>
<221> misc feature:
<222> (488)
<223> n equals a,t,g, or c
<400> 686
ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg 60
atcccccggg ctgcaggaat tcggcacgag cggctgggcg ctgaggatca gccgcttcct 120
gcctggattc cacagetteg egeogtgtae tgtegeecca tecetgegeg eccageetge 180
caagcagcgt gccccggttg caggcgtcat gcagcgggcg cgacccacgc tctgggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgccggtg gcgcgggctg gcgcgagctc 300
ggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
egegeettee geeegeegtg tgegeeggaa ettggtgege caageeggge ttgeggntge 420
tgcctgacgt.gcgcactgag cgaagggcca gccgtgcggn atctacaccg ancgctgtgg 480
nttccggnct tcgttg
<210> 687 -
<211> 476 ·
<212> DNA
<213> Homo sapiens...
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
<220>
<221> misc. feature
<222> (7)
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```
<223> n equals a,t,g, or c
  <220>
  <221> misc feature ......
  <222> (10)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature % % LT
  <222> (56)
  <223> n equals a,t,g, or c
        in sometimes of materials
 <400> 687
 gcncganach aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcgnccgc 60
 tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
 tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
 agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
 ccgtggaggt agatgccccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
 cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tggtctcagc 360
 agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
 cgacgeteac agagetgaga egtacagtee agteettgga gategacetg ggaett
 <210> 688
 <211> 483
 <212> DNA
 <213> Homo sapiens
                             ong makapapatan palatan katapatan ng taga na kataga ja
<220> During the product of the contract of
<221> misc:feature
<222> (2)
<223> n equals a,t,g, or c
<220>-
<221> misc feature =
<222> (4)
<223> n equals a,t,g, or c
<400> 688
anantaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggttcccgc ccggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa un midh nik
<210> 689-----
<211> 339
<212> DNA
```

```
<213> Homo sapiens
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c
<220>
           in the second and the
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c
         1.402 5 1.5
<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
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gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180
```

```
tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtggtg ttcaantcga 240
      cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
      tttgagggga ccaaaagcag ccaaaacctt aaaaaanna
      <210> 690.
      <211> 594
      <212> DNA
      <213> Homo sapiens
      <220>pains 10 11 0 000 integral to give the continuous form of the continuous continuous forms.
     <223> n equals a,t,g, or charted a percentage of the transfer of the second of the sec
     Sent Conservation of the conservation of the property of the conservation of the conse
     	imes 220 > the transfer with a problem element of a transfer a transfer of a section 	imes 220 >
     <221> misc feature. The temperature of years atomic thaccase was an year any of a continuous continuous.
     <222> (473)_3555
     <223> n equals a,t,g, or c
    <400> 690
     gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
     acaaagagaa gggggagaaa acctagcaga ccaccatgtg ctatgggaag tgtgcacgat 120
     gcatcggaca ttctctggtg gggctcgccc tcctgtgcat cgcggctaat attttgcttt 180
    actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggt 240
    tetttetgg categtagga ggtggeetge tgatgeteet gecageattt gtetteattg 300
    ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
    cgatgettte ttetgtattg getgetetea ttggaattge aggatetgge tactgtgtea 420
    ttgtggcagc ccttggctta gcagaaggac cactatgtct tgattccctc ggncagtgga 480
    actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
    tgcactgaac ccaacacatt ggggaatgga atggatetet ggtttetate etet .... 594
              No alian di manganan di mangan di mangan di Araba di Mangan di Mangan di Mangan di Mangan di Mangan di Mangan
    <210> 691
    <211> 538
    <212> DNA
    <213> Homo sapiens
                             <220>
   <221> misc feature
    <222> (3).
   <223> n equals a,t,g, or c
                              <220>
  <221> misc feature
   <222> (6)
                                    _ t
   <223> n equals a,t,g, or c
                                            <220>
<221> misc feature
  <223> n equals a,t,g, or c
```

```
<220>
 <221> misc feature
 <222> (55)
 <223> n equals a,t,g, or c
 <400> 691
 ganganacna acceteacta aagggaacaa aagetggage tecacegegg tgegneeget 60
 ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
 tecgeaegae tgttacagag gtetecagag cettetetet eetgtgeaaa atggeaacte 180
 ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
 tcactgtagt gggtgttgga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
 ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
 tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
 attotgtgac cgccaattot aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc 538
                                         in the second promote transport to the contract of the contrac
 <210>- 692
                           . The South Laboration Letter
 <211> 201
 <212> DNA
<213> Homo sapiens
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (143)
<223> n equals:a,t,g, or c
<220>
<221> misc feature
<222> (161)
<223> n equals_a,t,g, or c
<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<400> 692
geteattgcc aegegeeece gacgacegee egacgtgcat tecegattee ttttggttee 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
acconceaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatottaa tgaaggactt g
                                                                                                                                                              . .201
```

```
<210> 693
 <211> 589
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c
         The service substitute
 <220>
 <221> misc feature.... us ...
 <222> (2)
 <223> n equals a,t,g, or c
  Control of the American
 <220>
 <221> misc feature ::
 <222> (23)
 <223> n equals a,t,g, or c
   • • • • • •
 <220>
 <221> misc feature
 <222> (271)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
· <222> (312)
 <223> n equals a,t,g, or c
      in in I state that
<220>
<222> (342)
 <223> n equals a,t,g, or c
      <220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
<222> (437)
 <223> n equals a,t,g, or c
<220> -
<221> misc feature -- --
<222> (466)
<223> n equals a,t,g, or c
           1 . . . . . . . . <del>. .</del>
<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c
  <220>
<221> misc feature - - -
<222> (551)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c
           1.32 34
<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c
<400> 693.
nncaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccggggttgt taacttgttt attgcagctt ataatggtta caaataaagc aatagcatca 120
caaatttcac aaataaagca tttttttcac tgcattctag ttgtggtttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancetgaatg gegaatggga egegeeetgt aneggegeat taanegegge 360
gggtgtggtg gttaccncaa cgtgaccgct acacttgcca negccctaac gcccgctcct 420
ttenetttet teecetneet tteteeceea egtteegeeg ggtttneece gteaaactet 480
aaatccgggg ntccccttta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nnctanttgg gccaccccc
```

office field over the characters will be a second of the control o

```
<210> 694
 <211> 386
 <212> DNA
 <213> Homo sapiens
  <220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c
      18 s (15, 1 ) 2 (1
 <220>
 <221> misc feature
 <222> (135) Antitra-
<223> n equals a,t,g, or c
Professional Stream as 6000 per 5
~ <220>
<221> misc feature
 <222> (149)
 <223> n equals a,t,g, or c
      and the result of the second
 <220>
<221> misc feature
 <223> n equals a,t,g, or c
              7.1.20
         . _
<220>
<221> misc feature
<222> (202)... =
<223> n equals a,t,g, or c
   <220>
<221> misc feature
<222> (204) ---
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c
 Control of the control of the case of
<220>
<221> misc feature
··<222> (326) ···- · ... - · ...
<223>:n equals a,t,g, or c
   <220>
<221> misc feature
<223> n equals a,t,g, or c
```

```
<220>
    <221> misc feature
     <222> (369)
     <223> n equals a,t,g; or c
                                                  <220>
     <221> misc feature
     <222> (370)
    <223> n equals a,t,g, or c
                            <220>
    <221> misc feature
    <222> (383)
    <223> n equals a,t,g, or c
                              and the control of the second of the control of the
    <400> 694% - A START TO THE PROPERTY OF THE PR
    ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60:
    gagatetgee étgeeggeea eggetacace tacgegaget ecgacateeg ectgtecatg 120
   aggaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
    tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
    tgangccggg accatecetg acaaggttga eteteaaget ggeeaggtea egaeeagtgt 300
    cactcatgca cctgcctggg tcacanggaa atgccacaan cccacccaat gcctgaacag 360
    ggaattgcnn aaaattccgg aanaaa
                                                                                                                                                                                                                                                                                                                 386
   <210> 695
  <211> 475
   <212> DNA
   <213> Homo sapiens
  <220>
  <221> misc feature
  <222> (231)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (278)
  <223> n equals a,t,g, or c
  <220>
                                            . . .
 <221> misc feature
 <222> (423)
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (459)
 <223> n equals a,t,g, or c
<220>
                                               . . :
<221> misc feature
```

```
<222> (463)
 <223> n equals a,t,g, or c
 <220>
        Carrier Contraction
<221> misc feature
 <222> (465)
<223> n equals a,t,g, or c
<220>
       in the experience of the first
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c
<400> 695
ggttcacagc atatattggt ggattcttgt ccatagtgca tctgctttaa gaattaacga 60
aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt 120
actetettee tggcattgat tggtggtace agtggccagt actatgatta tgatttteec 180
ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc 240
tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct 300
ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt 360
gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag 420
atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac
<210> 696: trans to the common
<211> 444
<212> DNA
<213> Homo sapiens:
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
  . . . .
<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c
<400> 696
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac 60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat 120
cactatgaag aagccaaaat tacctgctca gcccacaggg aacccagact ggttggaggg 180
gacattccct gttctggacg tgttgaagtg aagcatggtg acacgtgggg ctccatctgt 240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca 300
gttgtctcta tcctgggggg agctcacttt ggagagggaa tggacagatc tgqqctqaag 360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccqccc 420
aaaaggaact tgtagccaca gcaa
                                                               444
<211> 411
<212> DNA
```

```
<213> Homo sapiens
<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
<220>
                  1, 11,
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c
<400> 697
aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagttttat gttttcccag 180
teceeteegg gaaeggetga actgtttgge teaggeeegt tgagggggee gggaeegggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgcccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a
<210> 698
<211> 135
<212> DNA
<213> Homo sapiens
```

```
<220>
     <221> misc feature
     <222> (21)
 <223> n equals a,t,g, or c
     <220>
    <221> misc feature
     <222> (27)
    <223> n equals a,t,g, or c
           Tropic Commission
    <220> . . . .
<222> (54)
    <223> n equals a,t,g, or c
             in the second second second
    <220>
    <221> misc_feature : . . . . .
   <222> (65)
   <223> n equals a,t,g, or c
  <220>
  <221> misc feature . . . .
  <222> (79)
  <223> n equals a,t,g, or c
           entre in the teather in Egan and Egypheramizad in them were tree pactures.
  <400>n698: http://doi.org/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.100/10.1000/10.1000/10.100/10.1000/10.100/10.1000/10.1000/10.100
 ggcgtgggtt tccgggaggg nacctgnggg gcccagaccc agcgcatccg gtgnagggtg 60
  ccctncaact ggaagatgna:tttcgagccg.atttcaagta caaagtttta:gaacttgggg.120
  tgcgtgtgat staggger som for a fire a coloring of coloring more more more selected 135
<211> 434 L - Current Line Line - Frank Colored Line in the Colored Co
  <212>::DNA
  <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
<222>::(18) : . :.......
<223> n equals a,t,g, or c
<220> 1 2 2 2 2 2 2
```

```
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c
<220>
           ......
<221> misc feature
<222> (321) ....
<223> n equals a,t,g, or c
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<223> n equals a,t,g, or c
<221> misc feature
<223> n equals a,t,g, or c
<220>
     and the property of the property of the property of the
<221> misc feature
<222> (394)
<223> n equals_a,t,g, or.c.
     <221> misc feature
<222> (427)
<223> n equals a,t,g, or c
<400> 699
cgtacangag.ctganggnga gcgccctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg.ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac
<210> 700
<211> 435
```

```
<212> DNA
   <213> Homo sapiens
   <220> 1
   <221> misc feature
   <222> (118)
   <223> n equals a,t,g, or c
   <400> 700
  geogagegea egeettgeeg eegeeeegea gaaatgette ggttacceae agtetttege 60
  cagatgagac cggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
  gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
  gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
  agtcccaaag taacaaaaga tggtgtgact gttgcaaagt caattgactt aaaagataaa 300
  tacaagaaca ttggagetaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
  ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
  aagattagca aaggt
                                                                                i versione de l'agus sa costerni l'orisant da sa colon majore de l'
   Si kacamatan ing Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kab
                                      and the state of the second section of the second s
  <210> 701
  <211> 406
                                                                                Confirmation according to the contract of the contract the con-
  <212> DNA
                                                                            in the same and in authorization is given in the light for
 <213> Homo sapiens: Assemble to the property of past parts of purchase to the property of the 
                                         ರ ಕರ್ನಾಟಕ ಕರ್ಮಕ್ರಮಗಳಲ್ಲಿ ಸರ್ಕಾರ ಕ್ರಮಗಳಿಗೆ ಮುಂದು ಬಿಡಿದಿಗೆ ಮಾಡುವ ಮುಂದು ಮುಂದು ಬಿಡಿದಿಗೆ
 <400> 701
 aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
 tgtggccgtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
 teccaaagta acaaaagatg gtgtgaetgt tgeaaagtea attgaettaa aagataaata 180
 caagaacatt ggagctaaac ttgttcaaga tgttgccaat aacacaaatg aagaagctgg 240
 ggatggcact accactgcta ctgtactggc acgctctata gccaaggaag gcttcgagaa 300
 gattagcaaa ggtgctaatc cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
 tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct
<210> 702 mali Albania az a
 <211> 266
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c
<220>
                         or the way is figure to the
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n ēguals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c
<400> 702
tgtgagttca agcgggtgcc gcagtgcccc agcgggaggg tctacgtgct gaagttcaag 60
gcagggtcca agcggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaacccccc gatgcctggg gcactggggg 180
ccagcggaac agcggccacg aantctctgc gctangcggt tgaggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag
<210> 703
<212> DNA
<213> Homo sapiens ... ...
<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c
<220×
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c
<400> 703
tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tccccacact catcqccctt 120
```

```
accacgetae tectacetat eteccetttt atactaataa tettataaaa aaaaaaaaa 180 .
 aaaaaaaaa aaangggggg gccgggnncc natttngccc aaaggggggg ggttttaaaa 240
                                                                    244
 <2.10> 704
 <211> 462
 <212> DNA
 <213> Homo sapiens.:
 <220>
 <221> misc feature
 <222> (7)
 <223> n equals a t,g, or c
<220>
<221> misc feature:
<222> (45)
<223> n equals a, t,g, or c
<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c
<220>
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<222> (206)
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<222> (339)
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   <221> misc feature
   <222> (344)
  <223> n equals a,t,g, or c
  <220> ...
  <221> misc feature 49 to main transmit of the main transmit against the second and the second an
  <222>1(347) * Text ggmt mythical size statistation on industrial and one of the
  <223>In equals a,t;g; or calling through the british of
                                                                                                                                              sa នៅក្រុម្បាល បានមាននៅនៅក្រុមបានជាជាជាជាជាជាជាជាជាក្នុងជា ក្រុមបានជាជាជាក្រុមប្រជាជាជាក្រុមបានក្រុមបានក្រុមបា
                            ်လုံးကို မြန်မာရေးမှ နေရှိနှို့ နောက်မှုနှံ့များကို မြန်မာရေးမှာ မြန်မာရေးမှာ မေးမှုများမှာ မေးမှု
  <220>
  <221>/misc feature/facultinessy: a rapportable of perfect the same appears it.
  <222>1(356)73 [384] 11 anjuly57[38] T utilizations for him and home education [3]
  <223>nn equals a;t;g; or;cocd in a language percentage of the cock approximate
  a marat of details
  <220>
  <221> misc feature
  <222> (358)
  <223> n equals a,t,g, or c
  <220>
 <221> misc feature
 <222> (381) #/** " ""
 <223> n equals a,t,g, or c
     Takin Maraka a daya sa a
 <220>
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 <222> (401) / same
 <223> n equals a,t,g, or c
                      <220>
<221> misc feature
<222> (406) * 12.2222 #
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<220>
<221> misc feature
<222> (427) *********
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              <220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c
                                 in the state of the state of
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gtaagancta agtgaccete ggetgetgea ggggatetge agegnaetge agecatgggg 60
geocacetgg teeggegeta cetgggegat geeteggtgg anceegacee cetgeagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180
```

```
cancangana tgatggacgc gcactnaagc tccanctgcg ggantactgc gcccaccaac 240
  tcatccgggt gctcaattnc aaccttaaan cttcccccac ttccttggct tgcnaaccag 300
  gaacgggaca aatnggaata ntnccaaaca ccccanaant tttnttnccc ttaaanantt 360
  tttaaacgga aacgaagggt ntccccccg gaaaaaaaac nggggnaaaa aaaggggaaa 420
  ttttttnccc ccccccgcc cgnggaaatt ttcccccccg tt
                                          1. . . . . ·
  <210> 705
  <211> 436
  <212> DNA
  <213> Homo sapiens
                          <400> 705
 gaaggtcagc gccgtaatgg cgttcttggc gtcgggaccc tacctgaccc atcagcaaaa 60
 ggtgttgcgg ctttataagc gggcgctacg ccacctcgag tcgtggtgcg tccagagaga 120
 caaataccga tactttgctt gtttgatgag agcccggttt gaagaacata agaatgaaaa 180
 ggatatggcg aaggccaccc agctgctgaa ggaggccgag gaagaattct ggtaccgtca 240
 gcatccacag ccatacatct teeetgacte teetggggge acctectatg agagatacga 300
 ttgctacaag gtcccagaat ggtgcttaga tgactggcat ccttctgaga aggcaatgta 360
 tectgattae tttgecaaga gagaacagtg gaagaaactg egggagggaa agetgggaac 420
 gagaggttaa gcagct a the transport from the transport of the company and the co
                                            Contract Contract to the first
 <210> 706
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (26).
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (34)
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<220>
<221> misc feature
<223> n equals a,t,g, or c
<220>
<221> misc feature
                          17.
<222> (51)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
```

and the second s

```
<220>
 <221> misc feature
 <222>" (72)
 <223> n equals a,t,g, or c
                   and the state of the property of
                         <220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n'equals:a,t,g, or c
<220>
<221> misc feature
<222> (122)
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<220>
<221> misc feature
<222> (127)
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<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (161)
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<220>
<221> misc feature
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<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c
<220>
```

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<221> misc feature
           <222> (229)
         <223> n equals a,t,g, or c
        <220>
        <221> misc feature
         <222> (279)
         <223> n equals a,t,g, or d
        <220>
        <221> misc feature
        <222> (289)
        <223> n equals a,t,g, or c
      <220>
      <221> misc feature 300 (NACO ) of the process in the east grid tages ()
                                                                                                                                        and the second of the second o
        <222> (293)
        <223> n equals a,t,g; or counties to dehadrae interest of the operation

    The Margar Associated Systems of the State of the Association of the State of the S
        <220> (2.1) Control of the particle of the particle of the process of the process of the process of the particle of the partic
      <221> misc feature to the total particle of the supering the contract of the supering the superi
      <222> (341)
                                                                                                                                                                                                                                                                                                                         Companies de General de Companies de Compani
        <223> n equals a,t,g, or compact dather in the content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of a statute with the state against the souther for each or a section
                                                                                                                                                                                                                                                     in a sata jih nataji nini sa nini na azumini
     <220>
     <221> misc feature 4 was tendented by length models in the transfer of tendented
     <222> (346)
                                                                                                                                          in the control of the State of the control of the c
    <223> n equals a,t,g, or c
    <220>
    <221> misc feature
    <222> (359)
    <223> n equals a,t,g, or c
  <220>
    <221> misc feature
    <222> (371)
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  <220> '
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  <222> (378)
 <223> n equals a,t,g, or c
<220>
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 <222> (384)
 <223> n equals a,t,g, or c
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<221> misc feature

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    <223> n equals a,t,g, or c
    <22.0>-
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   <220>
   <221> misc feature
   <222> (453)
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  <220>
  <221> misc feature
  <222> (467)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (483)
  <223> n equals a,t,g, or c
  <400> 706
 gccagaagaa cactgctgct cttggnggac gggnccagag gaatncagag ntaaaccttg 60
 agngeetgeg thegtgagaa tteageatgg aatgaeteta etattthetg ggatttetgn 120
 tnctggntgn aagattgcca cttgatgccg ccaaacgatt ncatgatgag ctgggnaatg 180
 aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
 atgactggaa tgaaaaactc tacccagtgt ggaagcggng agacatgang tgngaaaaac 300
 tgctggaagg gaggcccgtg tgcaaggcgg tcctgaccag ngactnacca accettggng 360
 ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
 caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
 canaagg
                                                                                                                                                                      487
 <210> 707
 <211> 414
 <212> DNA
 <213> Homo sapiens
    . . - '
<220>
<221> misc feature
<222> (178) - i - j - . . . . .
<223> n equals a,t,g, or c
<220>...
                          .. .
<221> misc feature of the management of the second of the 
                                                                                    The growth for the sample by
<222> (214)
<223> n equals a,t,g, or c
     20>
                                                                                 The second of the second of the second
<220>
```

```
<222> (219)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
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<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
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tgccgccacc cgatggaaga ttcgatggac atggacatga gccccctgag gccccagaac 120
tatcttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaatgagc accagttatc tttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtetgt acagccaacg gttttcccct tgggggcttt gaataacacc 360
accanggncc ttaaggttga antgtggttc agggccatgc cnattagngg acag
<210> 708
<211> 360
<212> DNA
<213> Homo sapiens
      <220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c
  . . .
<220>
<221> misc feature
<222> (335) -
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
 <222> (343)
 <223> n equals a,t,g, or c
        -----
<220>
<221> misc feature
<222> ("352") ....a.m. ....
<223> n equals a,t,g, or c
           1
              <220>
<221> misc feature
<222> (355) L - LLLC
<223> n equals a,t,g, or c
  <400> 708
gaaaagccat ctttgcattg ttcctcatcc gcctccttgc tcgccgcagc cgcctccgcc 60
gegegeetee teegeegeeg eggaeteegg eagetttate geeagagtee etgaactete 120
getttettt taateeestg categgatea eeggegtgee eeaccatgte agaegeagee 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
aggtgacatg aggtagccga gaagaggaag aagtngggag aanagagaga anaanaagtt 360
<210> 709 ...
<211> 253 ... .. .. .. .. .. .. ..
<212> DNA
<213> Homo sapiens
      <220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
 u til ettir ma
<221> misc feature .....
<222> (17)
<223> n equals a,t,g, or c
 . .
<220>
<221> misc feature....
<222> (30)
<223> n equals a,t,g, or c
<220>
<222> (72)
<223> n equals a,t,g, or c
81.2 20.00 38.00 8.00 12
<220>
```

<221> misc feature

```
<222> (80)
   <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (110)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (138)
 <223> n equals a,t,g, or c
 <220> . . .
 <221> misc feature / 10 3
 <222> (183)
 <223> n equals a,t,g, or c
      s in a second man
 <220>
 <221> misc feature
 <222>.(189)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (199)
 <223> n equals a,t,g, or c
                     in the second
<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
     and the control of the experience of the transplantation of the control of the co
<220>
                                          <221> misc feature
<222> (252)
<223> n equals a,t,g, or c
<400> 709
aaagctatnt cggtganact atataaggtn cgcctgcagg taccggtccg gaattcccgg 60
gtcgacccac gngtccgctn cggtggtgaa caagtctcca gcaccatatn tggtttgtct 120
ggcccaccat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
geneaaatng gteettggna teteetteea tetgeecatt aactetegea agtgeeteeg 240
ngaggaaatt cnc
<210> 710
<211> 496
<212> DNA
<213> Homo sapiens
<220>
```

```
<221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (289)
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<221> misc feature
<222> (304)
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<221> misc feature
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<221> misc feature
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<220>
<221> misc feature
<222> (344)
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<220>
<221> misc feature
<222> (-357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (376)
         <223> n equals a,t,g, or c
        <220> ·
        <221> misc feature:
        <222> (386)
        <223> 'n equals a,t,g, or c
       <220>
       <221> misc feature=
       <222> (404)
       <223> n/equals/a/t/g//or/co
     <220>
       <221> misc féature=
     <222> (407)
     <223> nrequals@a,trg; orcc:
    <220>
    <221> misc feature =
    <222> (412)
    <223> n equals=a,t,g, or c:
    <220> -
    <221> misc feature=
    <222> (413)
   <2235 n.equalsca,t,g, or co
  <220>
   <221> misc feature while agree again the arm of the community of the second agreement of the community of th
   <223> n equals a,t,g,nor common commo
                       Comparation descriptions of the second of the control of the contr
  <221> misc feature
  <223> niequalsia,t;g; or c in the minimum of the contract of t
  <220>
  <221> misc feature
  <222> (463)
  <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c
               -- --
<220>
<221> misc feature
<222> (476)
```

```
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 <220>
 <221> misc feature
 <222> (483)
 <223> n equals a,t,g, or c
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 caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
 tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
 gaacctggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaaatg gttacacttc tggtgaatgg atttggaaat ccaaaagant ctgacatcca 300
tggnccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta tttnatncaa tnncctcccn 420
atttaaggtt ttttccgggg tgggcccctt caagggaatn congggctnt tttttnacac 480
<210> 711
<211> 461 .
<212> DNA .
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature.
                      and the second of the second
<222> (221)
```

```
<223> n equals a,t,g, or c
   <220>
                                                                                                                   <221> misc feature ...
                                                                                                                 a de la companya de
   <222> (337)
                                                                                                                                          ......
   <223> n equals a,t,g, or c
                                                                             and the control of th
   <220> ...
                                                    guito di na vetava mha da
   <221> misc feature
   <222> (364)
   <223> n equals a,t,g, or c
   <400> 711.....
   ntncaatgga anctecetgg agettteace geggtgneeg geegetetag aactagtgga 60
   ttncccgggc tgcaggaatt cggcacgagg tcgcagacac tatgctgcct cccatggccc 120
   tgcccagtgt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaaggtg 180
  aagaacccca gagggaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
  atggctccca ctgctatgcc ttgtttttgt caccaaaatc ctggacagat gcagatctgg 300
  cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
  tcgngcctcc ctggtgaaga gcattggtaa cagctactca tacgtctgga ttgggctcca 420
  tgaccccaca cagggcaccg agcccaatgg ataaaggttg g
                                                                                                                                                                                                                                                                               461
  <211> 392
  <212> DNA
  <213> Homo sapiens
  <220>
  <221> misc feature
  <222> (326)
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  <221> misc feature
 <222> (359)
 <223> n equals a,t,g, or c
  <220>
 <221> misc feature
 <222> (368)
 <223> n equals a,t,q, or c
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 <221> misc feature
 <222> (376)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
<222> (389)
<223> n equals a,t,g, or c
                                                                                                                                                          Company of the state of the sta
```

```
<400> 712
cgcaaccttt ccaagggagt ggttgtgtga tcgccatctt agggaaaaga tgttctcgtc 60
cgtggcgcac ctggcgcggg cgaacccctt caacacgcca catctgcagc tggtgcacga 120
 tggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
 tcctctagat ctggttaaat gcagangcag gtttgttttt gcatgctgga cttagagcna 360
 ttgaagcntg actgangtta agtattagna ta
                                                                392
<210> 713
<211> 734
<212> DNA...
<213> Homo sapiens
<220> .....
           25 5 2
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (256)
             .
<223> n equals a,t,g, or c
<220> . ...
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c
<220>
<221> misc feature
             1.2.7. 22 :
<222> (496)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (601).....
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (642)
<223> n equals a,t,g, or c
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<220>

: ..1. :

```
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<222> (690)...
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<222> (703)
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gagaaaaagg tggaacggca gacggaactt aagcgcaaat ttgaacagat gaaacaagat 60.
aggatçacca gataccaggg tgttaatctt tatgtgaaaa atcttgatga tggtattgat 120
gatgaacgtc teeggaaaga gtttteteea tttggtacaa teactagtgc aaaggttatg 180
atggagggtg gtcgcagcaa agggtttggt tttgtatgtt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtgggcca caaagccatt gtatgtagct 300
ttagctcagc gcaaagaaga gcgccagget cacctcacta accagtatat gcagagaatg 360
gcaagtgtac ganctgttes caaccetgta atcaaccet accagecage aceteettea 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgotca actaanacca agtootogot ggactgotca gggtgocata actoatocat 540
tecaaaatat geeeggtget ateegeeeag etgeteetan aacaceattt agtaetatga 600
naacagette tteteageaa catettaatg cacagecaca anttacaatg cacaneetge 660
tgttcatgtt caaggtcagg aacctttgan tgcttccatg ttngcatctg cccccccca 720
aaacaaaacc aatt
                                                              734
<211> 500
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<213> Homo sapiens
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<221> misc feature

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  <222> (22)
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                       <220>
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<220>
                    <221> misc feature
<222> (42)
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<220>
<221> misc feature
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<400> 714:
                                        raging the engineering and the control of the contr
tantnnntta acceteacta anggenacaa agnetngnge theacegegg tggeggeege 60
tctagcaact agtggatccc ccgggcctgt caggaattcg gcacgagctg ggacaagcga 120
gtttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
aaaacacaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccca agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gattaccttg aattggatac aattaaaaat ctcgtcaaaa aatattcaca 420
```

```
gttcataaac tttcctattt atgtatggng cagcaagact gaaactgttn aggagcccat 480
 ggaggaagaa ggagcagcca
 <210> 715
 <211> 491
 <212> DNA-
 <213> Homo sapiens
 en la final de la companya de la final de la companya de la companya de la companya de la companya de la compa
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 <221> misc feature
 <223> n equals a,t,g, or c
         Harris British Colored
 <220>
 <221> misc feature
 <222> (4) "The grade of
 <223> n equals a,t,g, or c
  The second property to the control of
 <220>
 <221> misc feature
 <222> (58) - .....
 <223> n equals a,t,g, or c
 s (1) A myddia (y till yn g
 <220>
 <221> misc feature
 <222> (62)
 <223> n equals a,t,g, or c
          Community to all the di-
 <220>
 <221> misc feature
 <2223. (65) 1 mm - 1141 mm - 1141 mm - 1141 + 1441 LL - 14 m Lm - 1 m - 14 m
 <223> n equals a,t,g, or c
 to the colour bull attending to the colour of the
 <220>
 <221> misc feature
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          <220>
 <221> misc feature
<222> (248) -----
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<221> misc feature
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (271) ---
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     <222> (278)
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     <220>
   <221> misc feature
     <222> (285)
     <223> n equals a,t,g, or c
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                                      and the control of th
   <221> misc feature
   <223> n equals a,t,g, or c
                                  and the first of the second control of the s
   <221> misc feature
   <222> (314)
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   <220>
   <221> misc feature
   <222> (319)
   <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (321)
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  <220>
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 <223> n equals a,t,g, or c
         . . . .
 <221> misc feature
<222> (353)
<223> n equals a,t,g, or c
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<220>
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   <222> (360)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (398)
  <223> n equals a,t,g, or c
<220> 🦠 អង្គជាធិប្រការដ្ឋាន សេច 🕒
  <221> misc feature
  <222> (410)
  <223> n equals a,t,g, or c
  <221> misc feature
  <222> (422)
  <223> n equals a,t,g, or c
 <220>
                      ingawa sa kabalay labi b
  <221> misc feature
  <222> (473)
 <223> n equals a,t,g, or c
 <220>
                      og klada totom de d
 <221> misc feature
 <222> (474)
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 <400> 715
 gnanaaatgt ggtggaggct cagtttgata gccgggttcg tgcaacagga cacagttntg 60
 anaantacaa caagtgggaa acgatagagg cttggactca acaagtcgcc actganaatc 120
 cagccctcat ctctcgcagt gttatcggaa ccacatttga gggacgcgct atttacctcc 180
 tgaaggttgg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
 tgccaganan ttggatttct, ccctgcattc ngccagtngg ttttntaaaa aangcggttc 300
 ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
 ttcccgccct gtggccccaa tattgaaggg caacttcnac cccgggaacn aaaacccaat 420
 tntggaaaaa aaaacccccc cccccctgg tgggattctt gctttggttg ggnnccaccc 480
caaaaaaatt t
                                                                                                                                                                          491
<210> 716
<211> 331
<212> DNA COLLEGE OF CONTROL THE CONTROL OF CONTROL 
<213> Homo sapiens
<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c
```

```
<220>
   <221> misc feature
   <222> (303)
   <223> n equals a,t,g, or c
   <22.0>
  <221> misc feature
  <22.2> (321)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (322)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (326)
  <223> n equals a,t,q, or c
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 gctacccggt gtgcggcagc gacggcacca cctacccgag cggctgccag ctgcgcgccg 120
 ccagccagag ggccgagagc cgcggggaga aggccatcac ccaggtcagc aagggcacct 180
 gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
 angtgtactt gagctgtgag gtcatcggaa tcccgacacc tgtcctcatc tggaacaagg 300
 tanaaagggg tcactatgga nntcanagga c
 <210> 717
 <211> 486
                                                     The Control of the State of the
 <212> DNA
 <213> Homo sapiens
 <220>
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 <222> (5)
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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (32)
<223> n equals a,t,q, or c
<220>
<221> misc feature
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<222> (38)
  <223> n equals a,t,g, or c
 <220>
                 ٠.,
 <221> misc feature
  <222> (42)
 <223> n equals a,t,g, or c
                 <22<u>0</u>>
 <221> misc feature : ::
 <222> (68)
 <223> n equals a,t,g, or c
    y in the last transition
 <220>
 <221> misc feature .......
 <222> (78)
 <223> n equals a,t,g, or c
    ili bi kathird
 <220>
 <221> misc feature
 <222> (99)
<223> n equals a,t,g, or c
e de la composição de l
<220>
 <221> misc feature
<222> (107)
 <223> n equals a,t,g, or c
              and the second
<400> 717
tatenttaet aagggtacaa agttngggte tnecacengg tngaggaceg etectageaa 60
ctagtggntc ccccgggnct gcaggaattc ggcacgagna tattagncag cggttattcg 120
gtgagcggtg gtggtttatt cttccgtgga gttaagggct ccgtggacat ctcaggtctt 180
cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
ggaccactat attttctcca gaaggtcgct tataccaagt tgaatatgcc atggaagcta 300
ttggacatgc aggcacctgt ttgggaattt tagcaaatga tggtgttttg cttgcagcag 360
agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
aatgac , , ..........
                                                                                                                    . . . . . . . .
<210> 718
<211> 479
<212> DNA
<213> Homo sapiens
                           The second state of the second second
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<400> 718
tegacecacg egteegeage ceacecatee aegttgacte atecteagag acgaategae 60
```

```
acceteaact cagatggata cacceetgag ecagacaaac egeggeegat geecatggae 120
 acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
 ctgaagcgcg ataacctcct catagctgac attgaacttg gctgcggcaa ctttggctca 240
 gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
 aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
 cagctggaca acccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
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 <210> 719
 <211> 572
 <212> DNA
 <213> Homo sapiens
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 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (421) ....
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c
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gcgtgcccat gagaatgaga tcaccaaagt gcgaaaagtt actttcaatg gactgaacca 60
gatgattgtc atagaactgg gcaccaatcc gctgaagagc tcaggaattg aaaatggggc 120
```

```
tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
 tecteaaggt etteeteett eeettaegga attacatett gatggeaaca aaateageag 240
 agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
 cagcatetet getgttgaca atggetetet ggccaacacg ceteatetga gggagettea 360
 cttggacaac aacaagctta ccagagtacc tggtgggctg cagagcataa agtacatnca 420
 nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtgac ttctggccac 480
 ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
 ggccangact ggggagaana cagecatcca cc
 <210> 720
 <211> 487<sub>0</sub> factories
 <212> DNA
 <213> Homo sapiens ... ... .
 <220>
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<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (459)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> mise feature
<222> (467)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c
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ggntaaatca gaactcgaat ggccttgttt tcttgctctg gggctcttat gctcagaaga 60
```

```
agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
 tgtcagtgta tagagggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
 agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
 ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
 ttaattetta agtaetetge ataaggggga aaagetteea gaaageagee atgaaceagg 360
 ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
 tgtctttctc tgcaacatgg cttcggncta aaatatgcnn aagacannat gagggccaat 480
 acttaat
 <210> 721
 <211> 464
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (443)
<223> n equals a,t,g, or c
<220>
        The state of
<221> misc feature
<223> n equals a,t,q, or c
<221> misc feature
<222> (455):33:33 - 34:32:32
<223> n equals a,t,g, or c
<400> 721 i tjubio sauj opisa groua tgraaddaat hestoghgo sugomosugu ah
eggacgegtg ggegtetget ggggcacetg aaggagaett gggggcacec gegtegtgee: 6010
tcctgggttg tgaggagtcg ccgctgccgc cactgcctgt gcttcatgag gaagatgctc 120
gccgccgtct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgta attitgcaaa tgatgctaca titgaaatta anaaatgtga ccttcaccgg 240)
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360:
atcntggttt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaadact ctccanctac ggntccgntt atttnccggg cttc
. . . . . .
<210> 722
<211> 320
<212> DNA
<213> Homo sapiens
    .
Promission in a traction
<220>
<221> misc feature, a, are a
<222> (12)
<223> n equals a,t,g, or c
      Court Silver
<220>
<221> misc: feature ... --
<222> (43)
<223> n equals a,t,g, or c
     and the state of
<220>
<221> misc feature ... .....
<222> (113)
<223> n equals a,t,g, or c
<220>:
<221> misc feature.
<222> (142)
<223> n equals a,t,g, or c
<220> ----
<221> misc. feature: 3. 31 3
```

<222> (152)

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<223> n equals a,t,g, or c
 <220>
 <221> misc feature .
 <222> (153)
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 <220>
<221> misc feature
 <222> (182)
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<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (281)
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<221> misc feature
<222> (299)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c
<400> 722
gttgcacage anctgcacge geegtggete eggatetett egnetttgca gegtageeeg 60
agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgccttcatt cagacccage anctgcacge anneatggct gacacattce tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggccgg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt
<210> 723
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<211> 152
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (87)
<223> n equals: a_{\nu}.t_{\nu}.g_{\nu}, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (127)
<223> n equals apt,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<400> 723
gcccaccatg gctgcaatcc gaaagaagct ggtgatcgtt ggggatggtg cctgtgggaa 60
gacctgcctc ctcatcgtnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg
                                                                   152
<210> 724
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (463)
<223> n equals a_r t_r g_r or c
<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (553)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (559)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
 <222> (569)
 <223> n equals a,t,g, or c
<400> 724
gctgctatgt tcaatataag aaatattgga aagacgctcg tcaccaggac ccaaggaacc 60
aaaattgcat ctgatggtct caagggtcgt gtgtttgaag tgagtcttgc tgatttgcag 120
aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
tgcctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catggtcaaa 240
aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
gctcagcacc aacaggtccg ccaaatccgg aagaagatga tggaaatcat gacccgagag 420
gtgcagacaa atgacttgaa agaagtggtc aataaattga ttncagacgc attggaaaag 480
acatagaaaa ggcttggcaa tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
aatgctgaag aanccaagnt tgaatgggna aac
<210> 725
<211> 403
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
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tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
ageceagege geetegtege catgeetegg aaaattgagg aaatcaagga etteetgete 180
acagcccgac gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
tttaaagttc gatgcagcag atacctttac accctggtca tcactgacaa agagaaggca 300
gagaaactga agcagtccct gcccccggt ttggcagtga aggaactgaa atgaaccaga 360
cacactgatt ggaactgtat tatattaaaa tactaaaaat cct
<210> 726
<211> 502
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
```

```
<222> (7)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (8)
 <223> n equals a,t,g, or c
<220> hadd that like
<221> misc feature
<223> n equals a,t,g, or c
40.00
<220> william (Page) ta
<221> misc feature
<222> (.256) (4) 4 (4) (6) (1) (50)
<223> n equals a,t,g, or c
111 ... " ...
<220> pulson ingagennos inacqualusum indufings signici - cus yhdig orione - galamin
<221>qmişc feature ( hijitataya parthabyada hiji hukan yazangahya ing
<222>x(281) supported that it is adjaced to get the order of the extractable grants.
<223>cm1equals(a,t)g; orpga:condd lawdotalswar imyr.as.com dawa gluwyg).
 ลา (การกระบาทการการกลาย การเพลงสระสมมาติการกล่างสุดมหาการกรุสภาทุน มีข้ากระบาทกา
<220>: Unitalization in a deposit busined accordance to the property of general successions.
<221> miso feature and
<222> (380)
<223> n.equals a,t,g, or c
<220> ...
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
firstin pulsar (setima)
<220>
<221> misc feature ...
<222> (428)
<223> n equals a,t,g, or c
 <220>
<221> misc feature ...
<222> (456)
<223> n equals a,t,g, or c
<400> 726
cgcaagnncg anactaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gccatcaggt 120
aagccaagat gggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
teatgegett tettetgagg gteegetget ggeagtaceg ceagetetet getetecaca 240
gggctccccg ccccanccgg cctgataaag cgcgccgact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtggtggccg aaaacgccca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtttg ctcgaagcct 420
```

```
tcagtccntt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
 ttactgggtt ggtgaagatt cc
                                                                    502
 <210> 727
 <211> 361
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
<400> 727
ggcacgagcg aacgcgnaga gcacgccatg aaggcctcgg gcacgctacg agagtacaag 60
gtagtgggtc gctgcctgcc cacccccaaa tgccacacgc cgccctcta ccgcatgcga 120
atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
aagaagatga agaagtette aggggagatt gtetaetgtg ggcaggtgtt tgagaagtee 240
cccctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccggag cggcacccac 300
aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
<210> 728
<211> 401
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c
<220> ****** - *****
<221> misc feature
<2225 (251) *** **** ** ** **
<223> n equals a,t,g, or c
<220> 15 10 17 ASSUTE
<221> misc feature
<222> (319) --- --- --- --- ---
<223> n equals a,t,g, or c
<220> 750 2875-8
<221> misc feature
<222> (332) - 1 - 1 - 1 - 1 - 1 - 1 - 1
<223> n equals a,t,g, or c
<220> 1100 Youthar
<221> misc feature
<222> (334) == 4 (5-2) = 1
<223> n equals a,t,g, or c
<220> **** ** **** ****
<221> misc feature
<223> n equals a,t,g, or c
<220> ***** i...:
<221> misc feature
<222> (389)*** *** *** ***
<223> n equals a,t,g, or c
           --- Cur.
<400> 728
gaagangete geetetagtg teeteegetg tggeaagaag aagtetggtt agaceecaat 60
gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaaggtaca gccnatgccc 240
gaatgccaaa naaggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c
<210> 729
<211> 530
<212> DNA
<213> Homo sapiens
<220>
```

```
<221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c
<400> 729
gcacagngan ancnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgn 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcc gccatcttcc 120
agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatqttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg ccccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccca gcatgctgtt ggcattgttg 360
taaacaaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct
<210> 730
<211> 375
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
<220>....
```

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<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (190)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (198)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (206)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (269)
              . . . .
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (333)
```

```
<223> n equals a,t,g, or c
    <220>
   <221> misc feature
                                                                                                                                                                            en en al lata de la completa
    لاكتابين والمراوي والمعاور أأرا ففالمعاري والما
   <220> .
   <221> misc feature
   <2.2.2> (367)
   <223> n equals a,t,g, or c
  Salah da kabatan da ka
   <400> 730
   gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtggtgc ttgtnctggc 60
   tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
  naanngcccc tacagccatg cnctggtggc tgggaattga accgctaccc ccgcaaatga 180
  nengetgeen tggggeanga agaagntege caggaggtea aagatatant ettttgtgaa 240
  ngtgtgtnac tacaatcacc tnatgcccnc aaggtactct gtgngatatt ccccttgggg 300
  caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
   aaggagnccc aggtc
     100
  <210> 731 3.0 3 1.0 00 1
  <211> 207
  <212> DNA
  <213> Homo sapiens
  <220> 0 1 % 1 % 2 1 2 2 7 77 17 1
  <221> misc feature
  <222> (143)
 <223> n equals a,t,g, or c
                                                        <220>
 <221> misc feature
 <222> (177)
 and the state of t
 <221> misc feature
                                                                                                                                 in the second of the second of
 <222> (187)
 <223> n equals a,t,g, or c
                                                                                                                               F. ** **
                                                                                  <220><sup>-</sup>
 <221> misc feature
 <222> (201)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c
```

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<400> 731
 gcgccgctgc gaagggagcc gccgccatgt ctgcgcatct gcaatggatg gtcgtgcgga 60
 actgctccag tttcctgatc aagaggaata agcagaccta cagcactgag cccaataact 120
 tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
 agccggnagc cgacggcaaa ngtgtcn
                                                                207
<210> 732
<211> 702
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (620)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (628)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c
<400> 732
ggcagaatgn ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac 60
gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga 180
actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaa aggaataagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
```

```
togtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tcccctttcg 600
 ccagctgcgt aataacgaan aggcccgnac cgatcgcctt tccacagttg cgcancctga 660
 atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg
                                                                    702
 <210> 733
 <211> 441
 <212> DNA
 <213> Homo sapiens
<220>
 <221> misc feature
 <222> (1) ...
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9.9).
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (101)
<223> n equals a_r t_r g_r or c
<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c :
<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

```
<222> (185)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (212)
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (260)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (310)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c
 <400> 733
 naattaaccc tcactaaagg gngcaaaagc tggtgctcca ccgcggtgcg accgctctag 60
 anctagtggt tececeggge tgeaggattt eggeaegane negtgeagat tegageanag 120
 gagegnaagg gaaegteate gtttggaaag entegeaata agaegeacae gttgtgeege 180
 cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
 gccaagcgca agagaaagtn taactggagt gccaaggcta aaagacgaaa taccaccgga 300
 actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
 ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
 caacgattag tcatgcaata a
 <210> 734
 <211> 379
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (324)
```

```
<223> n equals a,t,g, or c
    <220> .
   <221> misc feature
   <222> (342);
   <223> n equals a,t,g, or c
   <220>
   <221> misc feature
  <223> n equals a,t,g, or c
       and the first of the control of the community of the control of th
  o valueto se e s<del>ign</del>i modello sistema el co
  <223> n equals art/g/ or collection to the company operation of the collection 
                                                        Carlotter and Stage (12)
   <400> 734
  ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgtcg caataagacg 60
  cacacgttgt gccgccgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
  aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
 cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
  catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
  ttcatcttta agaatgtcaa cgnntttagt catgcaataa antgtnctgg ggttttaaaa 360
  aattaaaaga aaagnaaaa
 <210> 735
 <211> 187
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (172)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (176)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c
<400> 735
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atggtgaaga 60
aaattgaaat cagccagcac gccaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgage tgtggggate tggcactgtg gtteetgeat gaagacagtg gntggnngng 180
cctgnac
<210> 736
<211> 576
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (409) ·
<223> n equals a,t,g, or c
```

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<220>
   <221> misc feature
   <222> (429)
   <223> n equals a,t,g, or c
  <220>
   <221> misc feature
  <222> (436)
   <223> n equals: a,t,g, or:c:
  <220>
  <221> misc feature
  <222> (440)
 <223> n.equalsoa,t,g,.orcc:
 <220>
  <221> misc feature:
  <222> (444)
 <223> n equals a,t,g, or c:
 <220>
 <221> misc feature:
 <222> (452)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature:
 <222> (466)
<223> n equals a,t,g, or c.
<220>
 <223> n equals a,t,g, or c
      And the second of the second o
<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c
```

<400> 736

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tegacecaeg egteegeeca egeteeggee teagecetae cageaetggt catgtetaaa 60
 ggtcatcgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
 tacaagaaga ccaaggaagc tgttttgctc cttaagaaac ttaaagcctg ggaatgatat 180
 caaaaaggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaaccgt 240
 cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
 ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
 naagettget neetggtggg geatgtgggg aegtttnegg cattgggang gaaatggett 420
 ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
 ttaactacan tetteecagg caccaagatg gattaatana gatettggca gaatetggaa 540
 aagcccagag gtnccaaggg cccttcgggc accagc
 <210> 737
 <211> 297
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (243)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<400> 737
gctccgncat ggcgtgtgct cgcccactga tatcggtgta ctccgaaaag ggggagtcat 60
ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
caggicatea gactagiget gagicitiggg gractiggeag agetigget egaatteeca 240
```

```
ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaaac atgtgtc 297
<210> 738
<211> .354
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<22,2> (26)
<223> n equals a,t,g, or c
<220>
       . 17
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c
<220> ...
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c
   - - - · ·
<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c
<220>
            and the state of the state of
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature ...
<222> (193)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
 <222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<400> 738
gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
actctgaagg gacncacagn tatngtgaag ggccccanag gaaccctgcg gagggacttn 120
aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
aaatggtggg gtnacagaaa ggaactggct accgttcgga ctatttgtag tcatgtacag 240
aacatgatca agggtgttac actgggcttc cgttacaaga tgaggnctgt gtatgctcac 300
ttncccatca acgttgttat ccaagagant gggtctattg ttgaaatcca nant
<210> 739
<211> 504
<212> DNA
<213> Homo sapiens
<400> 739
ccgccatcat gggtcgcatg catgctcccg ggaagggcct gtcccagtcg gctttaccct 60
atcgacgcag cgtccccact tggttgaagt tgacatctga cgacgtgaag gagcagattt 120
acaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
atggtgttgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaagtcta 240
agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
attggaaata tgaatcatct acagcctctg ccctggtcgc ataaatttgt ctgtgtactc 480
aagcaataaa atgattgttt aact
                                                                   504
<210> 740
<211> 399
<212> DNA
<213> Homo sapiens
<400> 740
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ggacccgcca acatgggccg cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagategeea ttateeceag caaaaagete egeaacaaga tageaggtta egteaegeat 180
ctgatgaagc gaattcagag aggcccagta agaggtatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttggatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac
<210> 741
<211> 431
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<400> 741
aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
ageogetget gteagggaca tatetgaage aagegtette gaegeetaeg tgetteecaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgttaggaat 240
cgatcccgct aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tanttttaaa aaaaaaaaa aaacccnagg 420
ggggncccgt c
                                                                 431
<210> 742
<211> 357
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (178)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<400> 742
gtgcagcggt tcattaaaat cgatggcaag gtccgaactg atataaccta ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gtnaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg
<210> 743
<211> 249
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
<220>
            1 .. 1
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c
<400> 743
ggggcggtat gccgccaaac gcttccgcaa agctcagtgt cncattgtgg agcgcctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
chagcatgee ttegagatea tacgeetget cacaggenaa gaaccetetg caggteetgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana
                                                                  249
<210> 744
<211> 383
<212> DNA -
<213> Homo sapiens
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<400> 744
 gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtacg agtcccacta 60
 tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
 aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
 aatcagcagt ctcctggagg agcagttcca gcagggcaag cttcttgcgt gcatcgcttc 240
 aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
 ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
 gtaataaagg tgtttattgg ttt
 <210> 745
 <211> 452
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
<222> (314)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (435)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (451)
<223> n equals a,t,q, or c
<400> 745
gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgtcat gcccagccac ttcagccgag gctccaagag 300
tgtggcccgc cggntcctcc aagccctngg aggngctgaa aatggtggaa anggaccaag 360
atggcggccc gcaaactgac acctcaggga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc
<210> 746
<211> 114
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (103)
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<223> n equals a,t,g, or c
 <400> 746
 tgcatgctgg ngctggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac
<210> 747
<211> 165
<212> DNA
<213> Homo sapiens
<400> 747
ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcatcggga 120
cagcccgtgg cagaatctgc tcctgggaca cccacagggg ggctg
                                                                    165
<210> 748
<211> 583
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c .
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<220>
 <221> misc feature
 <222> (480)
 <223> n equals-a,t,g, or c
 <220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (541)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (543)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c
<400> 748
ggctagaaga tggttttgga gagcacccct tttaccactg cctggntgca gaagtgccga 60
aagagcactg gactccggaa ggacacagca ttgttggttt tgccatgtac tattttacct 120
atgacccgtg gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
gaggetttgg cataggatea gaaattetga agaatetaag ceaggttgea atgaggtgte 240
aaaagaagag gtgcttctga tctgtccagt gaagaaggtt ngagacttgt taagaatcga 360
caaggagtot tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctggttggn 480
agtgaaatta atttaaatga gcacccattt caaaagcttt aattaccaag tgggcgnttg 540
ntnccntgtt ttgaaaattg aaggtcttgt tttaaaaggn ggc
<210> 749
<211> 419
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (29)
223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
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<400> 749
 acneggagge ttettnatta eggnegggnn tgatgaggga aagetggtga egeetgeagg 60
 tgaccggtcc ggaattcccg ggtcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
 teteegetee cagacatggg teeetegget teetgeeteg gaagegeana geaggeateg 180
 tgggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
 cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
 ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtgg 360
 tttgtgggca ttgttngcta cgttggaaaa ccctcgangg ctccggaact tcaagaatn 419
<210> 750
<211> 507
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<400> 750
ggccgaacat ggagatcaag attatatctg gcactgcatt gatctcttct tagatttcat 60
tactgtette agaaaaetea tgatgateet ggeeatgaat gaaaaggata agaagaaaga 120
gaagaaatga agtgaccatc cagcetttee caattagaet teeteteett ecaceetea 180
tttccttttt gcacacatta caggtggtgt gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
atatagtttg gagtttggct tcatcttcct ggggttcccc tcactccctt ttttggcaac 360
cccatctgta gcctcttcct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaacttca ggagcccgct ttnccaccca gcttcattca cccantggac 480
ctgaactgtt tgggtananc ccnccgg
                                                                   507
```

<210> 751

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<211> 435
 <212> DNA
 <213> Homo sapiens
 <220> '
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 <222> (1)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (199)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c
<220>
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 <222> (218)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c
<220>
<221> misc feature-
<222> (257)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c
<220>.
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (331)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (355)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (363)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c
<400> 751
nactggaagt neteegggag aanggatete nacngeggtg eeggaegete tagaactagt 60
ggatcccccg ggctgcaggt agcctgagct tagctcagcg ccggggcttn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggcttnc 240
agnocceptca cottgentge etgecteggg agecaggget gggcacetgg cagtneetge 300
ggtcccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgntnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaa acctg
                                                                   435
<210> 752
<211> 591
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
<222> (319)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (407)
               ٠. .
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (579)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (586)
 <223> n equals a,t,g, or c
 <400> 752
 geggeacgag gegeecagag agacaceaga gaacceacea tggeeceett tgageecetg 60
 gcttctggca tcctgttgtt gctgtggctg atagccccca gcagggcctg cacctgtgtc 120
 ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
 gggacaccag aagtnaacca gaccacctta taccagcgtt atgagatcaa gatgaccaan 240
 atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacacccc 300
 gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
 attgntggaa aactgcagga tggacttttg cacatcacta cctgcanttt tgtggctccc 420
 tggaacagcc tgagcttagc tcagcgccgg gncttnacca agacctacac tgttggctgn 480
 gaggaaatgc acaagtgctt ccctgtttat ccatcccctg caaactgcag agtgggcact 540
 cattgcttgt aggacngacc agctcctacn angctcttna aaaggncttt c
<210> 753
<211> 547
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (512)
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<400> 753
aagcacttgt ccagatgagc agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat accoggacto oggaccacaa gcactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccytcatc tetyttyete atgygeatge aagaacacty aagetetttt ceatytyttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaatttttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc
<210> 754
<211> 384
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<400> 754
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tgggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacacc gaggtggttt gtgctccccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggctgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagecetg geatgateaa agaetgegga ceaegtgggt ggteetgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat
                                                                   384
<210> 755
<211> 253
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (240)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (244)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (252)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (253)
 <223> n equals a,t,g, or c
 <400> 755
 tgtagatctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
 cagtgcaagc agccctgcca gccacctcct gtgtgcccca cgccaaagtg cccaagagcc 120
 atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
 cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagen 240
 gaanttcccc cnn
 <210> 756
 <211> 183
 <212> DNA
 <213> Homo sapiens
 <220>
<221> misc feature
 <222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (57)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (79)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c
<220>
'<221> misc feature
<222> (141)
<223> n equals a,t,g, or c
<220>
<221> misc feature
·<222> (144)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<400> 756
ggcanaaana aggtaggaat aaggctagac ctttaacttc cctaaggnat acttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaatttttt tttttaaaa naantnonga aagcattttg aaaaaaaaa aacaaaaaaa 180
aag
                                                                   183
<210> 757
<211> 99
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (12)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (33)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c
<400> 757
agcetttaat anateatata ggaaantggt agntgeagta eggtnggaat teegggtgae 60
tcagcgtccg ggattgnanc anctgggatt ggagtttgg
                                                                    99
<210> 758
<211> 60
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<400> 758
<210> 759
<211> 66
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c
<400> 759
ccntnn
```

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<210> 760
 <211> 487
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (409)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (473)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c
<400> 760
tacagatgga gcaaatgtcc taacagagaa atagaggtga tgctgctaaa gggagaaatg 60
ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcatgagat 120
tttggaagaa gttttttact ttggtttagt cttttttcc ttcctttta ttcagctaga 180
atttctggtg ggttgatggt agggtataat gtgtctgtgt tgcttcaaat tggtctgaaa 240
ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaagt aaacttgtgt attgagctta actgtatttc agtatttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtetgaat gangaettta ttteatggat tataataagg aatgaggtaa ttngngnete 480
acattca
                                                                   487
<210> 761
<211> 422
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c
```

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<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c
<400> 761
gaaaaggcta aaatcatgaa ttagttacaa gcaacagtac caacttatgt gacccctgag 60
gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc tttcatcttc tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatcgcattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaaggtggt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
                                                                    422
<210> 762
<211> 375
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (315)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (373)
 <223> n equals a,t,g, or c
<400> 762
tttgaccact tgccaagtcc ctgtctcttt cagacacaga caagcttcat ttaaattatt 60
tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taatttataa 120
ctttattgtt acttcatcag tgtttccttt tgaaaggtgt atgaattcat tacattttta 180
ttctaatgta ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt
                                                                   375
<210> 763
<211> 372
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (354)
 <223> n equals a,t,g, or c
 <400> 763
caatatgtag cttactcttt ttttcccccc ttcttaaacc accagtggtt catttttaag 60
attttttcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctcttta gtaggaactc tttgttttta actcttggta tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tgggggctat aaatacaact tttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtnccctat gggnaattac 360
cttgggaaag tc
                                                                    372
<210> 764
<211> 195
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c
<220> ·
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
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<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<400> 764
cggacgcgtg ggcggacgcg tggggaaagg taagctctag cttaangtct angatttgtn 60
ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc
<210> 765
<211> 103
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (91)
 <223> n equals a,t,g, or c
 <220>
.<221> misc feature
 <222> (94)
 <223> n equals a,t,g, or c
<400> 765
 attaataatg gataccattc taaacaagtn aatccaagtt aagcccgtta aggagaaaga 60
 aattaaggtt agcggntcat gtncaagctg ngtntgaaag tgg
 <210> 766
 <211> 538
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (445)
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 <220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (474).
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c
<400> 766
cccgcgcggg cgcaggcggc cggaatggcg gggcccggct ggggtccccc gcgcctggac 60
ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaagaagg acactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac tttcagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catcintitc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360
```

```
ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caaggggggg 420
 gccggaaacc ttggtncttc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
 ttcttggccc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg
 <210> 767
 <211> 415
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<400> 767
ctttcccaag ggaaacactc agctttctat agaaaattgc actttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcaccc agtggttttt gttaggtcaa atgttcctgt 120
atagtttttg caaatagagc tgtatactgt ttaaatgtag caggtgaact gaactggggt 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtggtttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgettgaga eccaatetee atgatgaeet acaagetaga gtatttaaan geagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg
<210> 768
<211> 425
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (423)
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<223> n equals a,t,g, or c
 <400> 768
ctttgtacag gggctcagtt cagggaagag ttgagcttct ctctgagggg tccctagggg 60
 gacccctcag gccaggccct gatccagttc tccagggtct ttctcagggt caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tggaagtttg tctccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaaccca ggcctgacaa tcccgtatgt nggaagtaga 360
actgaccccc aacacccaga ngtcatgtng aaatactcac ggtatacatg gaaaaaaaa 420
annaa
<210> 769
<211> 256
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
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<220>
  <221> misc feature
  <222> (163)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
 <222> (200)
 <223> n equals a,t,g, or c
· <220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (235)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (250)
 <223> n equals a,t,g, or c
 <400> 769
 attctagatg tagcttgtgc agatgtagca gganaatagg aaaacctacc atctcagtgn 60
 gcaccagctg gcctcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
 cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
 tggagttttc taattctctn ttttgggaat ngtagattgt ttttgaaatg ctttnacgat 240
 gttaaaatan tttatt
 <210> 770
 <211> 316
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (158)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c
<220> -
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<400> 770
ggnagaggtt caacgatgtg gtgtggcatg taagctggtc catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtncc agctgaagca ctncatgtta 180
```

```
cgaggaagaa actacaagtn atgttcaaat ctattttggg tcattttnat gtacctttgg 240
 gttcaggcat tatttggggg gttttnnttc caaaggaact naantaaagt natnttgctt 300
 attaaaaaa ggaaaa
<210> 771
<211> 68
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c
 .223> ...
<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<400> 771
caaaagengg ageneeaceg enggegaceg enetanaact agtggateee eeggnetgea 60
ggaattca
                                                                   68
<210> 772
<211> 258
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (17)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (42)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (47) ·
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c
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<222> (189)
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<222> (225)
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<400> 772
nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagto ttttnottoo toocaccoot agggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaacccgggg acagnggacg caggncagac 240
taggaggan ccgggang
<210> 773
<211> 587
<212> DNA
<213> Homo sapiens
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<222> (535)
<223> n equals a,t,g, or c
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<222> (559)
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<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (572)

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<223> n equals a,t,q, or c
<400> 773
 ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgcccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccccttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggt 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttgttc aggtatccag 300
ggacggttet cacctetgte tttteteett geaggtgaet cetgeacetg egeeggetee 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctctt 420
cctctacccc ttcctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtotggg gatgccccat tgcgccggga aattggtggc ctcctcagtg atccntatca 540
aggagaagca aggaatccnt aattnccggn gnccgttgta cttaact
<210> 774
<211> 89
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (86)
 <223> n equals a,t,g, or c
 <400> 774
 ggcagaggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaa aaanannana aanaantat
                                                                    89
 <210> 775
 <211> 113
 <212> DNA
 <213> Homo sapiens
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<222> (10)
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<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (32)
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<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (75)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c
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<400> 775
ggtccggcgn ggtggaggga aacgcctccn thtctatata aggaatttcc cggtgthtnc 60
 gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgntctg ttt
 <210> 776
 <211> 66
 <212> DNA
 <213> Homo sapiens
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 <222> (5)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<400> 776
ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng
<210> 777
<211> 441
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<400> 777
atttgtatga aagaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60
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aatttacttt tttgcctaat taggaggaag cttggtcata aggaaaaaga gctgtgttta 120
  ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
  tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
  agctgaaggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
  ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
  catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaac ncgagggggg gcccggtacc 420
  caattcgccc taaagngagt c
                                                                     441
  <210> 778
  <211> 483
  <212> DNA
  <213> Homo sapiens
 <220>
  <221> misc feature
  <222> (335)
  <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c
.. <220>
 <221> misc feature
 <222> (471)
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 <220>
 <221> misc feature
 <222> (472)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (478)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (481)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c
<400> 778
gcttactttt aaccagtgaa attgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaatttatt aatgcaaaca gtacctaaca aacccacagg 120
```

```
toctaaacta ccaaacctgc attaaaaatt toggttgggg cgacctogga gcagaaccca 180
 acctccgage agtacatget aagacttcae cagtcaaage gaactactat actcaattga 240
 tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
 agtccatatc aacaataggg tttacgacct cgatnttgga tcaggacatc ccgatngtgc 360
 ageogetatt aaaggttegt tigticaacg attaaagtee tacgigatet gagticagae 420
 cggagtaatc caggtcggtt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
 nng
 <210> 779
 <211> 389
 <212> DNA
 <213> Homo sapiens
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 <222> (261)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
<400> 779
coetetteec ggetecaget cegeogecag étecageett tgetececet cecaaagtec 60
ceteceegga geggagegea cetagggtee etetteegte ecceeagece agetaceegt 120
tcagaccage agectcgggg ggcacccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc cccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgctc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggntttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn
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THE RESERVE STATE OF THE PARTY OF THE PARTY

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<210> 780
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 <212> DNA
 <213> Homo sapiens
 <220>
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 <222> (18)
 <223> n equals a,t,g, or c
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 <210> 781
 <211> 255
 <212> DNA
 <213> Homo sapiens
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 <222> (46)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (94)
 <223> n equals a,t,g, or c
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<222> (150)
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<222> (163)
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<220>
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 <222> (172)
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 <221> misc feature
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<222> (182)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (184)
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<221> misc feature
<222> (209)
<223> n equals a,t,g, or c
<220>
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<222> (224)
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gtaactgcgg acaagttgct ttnacctgaa tttnatgata catttcatta aggttccagt 120
tataaaatat tingitaaat attiattaan giggactata gantgcaaac inccattinc 180
cngntaaact tgtttttaaa ttatggccnt aggtaaccca tatngtaggg tattaatttc 240
cttggaacca aacca
                                                                    255
<210> 782
<211> 348
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (28)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (75)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (324)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c
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ttnagtagag acagggtttc accatgtnag tnaggctggt ctcgaactcc tgacctcagg 60
tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
concectca aaatnecata ttcaaagaag caatttcagt tootttctaa gotttetnag 180
tnaaggggct ccactgactt cctaggccct gtaaatttaa accagtcttt aaggttttgc 240
caggaaagtt cccttcttc caagtgggtt tttccaaatg ggcacaatgg caagcnanac 300
agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc
<210> 783
<211> 160
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (82)
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<220>
<221> misc feature
<222> (131)
<223> n_equals a,t,g, or c
<220>
<221> misc feature
<222> (141)
<223> n equals-a,t,g, or c
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c
<400> 783
ggcacgagct acaatggcac tgtggactna tgtttccttc gccgagngnc tggagcgggg 60
atctgatgaa aaggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct 160
  <210>...784.
<211> 81
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (25)
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<220> .
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (79)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c
 <400> 784
 ggcacgagcc gggatcgtgc cattneattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaa aaaaaannng n
<210> 785
<211> 541
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (364)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (369)
 <223> n equals a,t,g, or c
         . ~ . . . . . .
 <220>
 <221> misc feature
 <222> (393)
 <223> n equals a,t,g, or c
    <220> . .
 <221> misc feature _ ______
 <222> (399)
 <223> n equals a,t,g, or c
  e general Electronica
 <220>
<221> misc feature
 <222> (405)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature -
<222> (411)
<223> n equals a,t,g, or c
      1. . . . . .
           48.20
..<220>
<221> misc feature
<222> (463)
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        <220>
<221> misc feature
<222> (489)
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<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (530)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (539)
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<223> n equals a,t,g, or c
 <400> 785
 gagetgeagg cateagagaa ceagecetge teaegecatg eeegeeeeg cetteeetet 60
 tecetettee etetecetge ceagecetee etteetteet etgeeggeaa ggeagggace 120
 cacagtggct gcctgcctcc gggagggaag gagagggagg gtgggtgggt ggganggggc 180
cttcctccag ggaatgtgac tctcccaggc cccagaatag ctcctggacc caagcccaag 240
 gcccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcct 300
cccctgctgg tgccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccetggta eccaattetg ggneeeggne etaanetegg neeeaaccea 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
<210> 786
<211> 433
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<400> 786
cccacgcgtc cggtctaaca cgtgcgcgag tcggggggctc gcacgaaagc cgccgtggcg 60
```

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caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
 ccgccgaggg cgcaccaccg gcccgtctcg cccgccgcgc cggggaggtg gagcacgagc 180
 gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
 ctctggtgga ggtccgtagc ggtcctgacg tgcaaatcgg tcgtccgacc tgggtatagg 300
 ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
 gataagcttg gcgctctcgc aagaccccga aggaaccccn gncanggaat ttttatccgg 420
 tnaaagcgaa ttg
 <210> 787
 <211> 527
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (492)
<223> n equals a,t,g, or c
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cccaggatgt gtggcgagag cctgggccag cccacagcgt tcctagtcag gcagccacac 60
cttggtcctc atcttggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttccagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcattttt gtaggtctgt gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtcccac actgaaatcc cctctagtca 300
cccattccca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcagggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaa aaaaaaa
                                                                  527
<210> 788
<211> 203
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (121.).
<223> n equals a,t,g, or c.
<220>
<221> misc feature
·<222> (160)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (181)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (192)
 <223> n equals a,t,g, or c
 <400> 788
 gcttcatgtg gtctgacaat ttatttttgc catcattttt ttaattaaag aaaaaatttc 60
 cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
 naacatttga attgaattca gaatttttct gaaggtgtan atacttttt tttttttna 180
 ncaaaaaccc tnatttcaaa agg
                                                                    203
 <210> 789
 <211> 124
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (38)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (70)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
<400> 789
ggcacgagca gcctacagcc gcctgcatct gtatccancg ccaggtcccg ccagtcccag 60
ctgcgcgcgn cccccagtcc cgcaccngtt cggnccaggc taagttagcc ctnaccatgc 120
cggt
<210> 790
<211> 293
```

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<212> DNA
 <213> Homo sapiens
 <220>
<221> misc feature
 <222> (5)
<223> n equals a,t,g, or c
<220> -
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (184)
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ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnggtga aagnggatet nagggeteee cagggeeaen cagggeaace agggeeetne 180
tggnacctcc tggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggncggt tttgnccccg ngtttantgg ggg
<210> 791
<211> 129
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<220>
<221> misc feature
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  <222> (119)
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  <400> 791
  aaaaaaaaaa aaaaaaaggg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
  gcaacgtca
                                                                                                                                                                                          129
      <210> 792 Title Tomorrows London State to Critical Processing Control of the Cont
                                    <211> 267
  <212> DNA
 <213> Homo sapiens
 and the transfer that the authority
                                                                                 <220>
 <221> misc feature
 <222> (247)
                                                                                    1 11 15.11
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gggaagtete gegegattag tggggaggte tegeggette tggetaettg gtggegaggt 180
 gaagagette tgcaggtget gggggeggeg aacgeggegg gaaagaaaaa aaaaaaaaa 240
 aaaaaanctn ggnaagtatt tttanan
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<222> (347)
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<222> (443)
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gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagaggtcc atctgcgttc agacccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcaqctaca 420
cagactetee eggageteet egneaacett atg
                                                                   453
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<222> (137)
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ggngggggg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatcacga 120
gcgacggtgg tngtggngtg t
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<222> (56)
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<221> misc feature
<222> (149)
<223> n equals a,t,g, or c
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<221> misc feature
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ngeggeacag cageagegae geageggega canteagage agggaggeeg enceacetge 120
gggccggccg gagcgggcag ccccangene ceteceeggg caenege
                                                                   167
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        . -- . --
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· <220>
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ganninggcc nnagttaata tatcongtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctggttca ttganctnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t
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ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat taactagaaa 180
taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgntagtcc aaagaggaac 420
agctctttgg acactaggaa aaaaccttgt agagagagta aaaaatttaa cacccatagt 480
aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
attaaaacac tgaactgnac attaaacagc caatntcta
<210> 798
<211> 138
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gggggnncc ccncccc
                                                            138
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<222> (490)
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gaagttaact gttccccttg gtatttgttt aataccctgt acatatcttt gagttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tggtgagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtgttctgg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnngggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac
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<211> 516
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<222> (44)

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  <222> (335)
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 <222> (501)
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 tnctactage ccaccagece accagggana aaataaneea tganangeng egneegeeae 180
 congiginen canteccone effecegnti ecctiagaan ectgeogogi ectateteat 240
 gacgeteatg gaacenettt etttgatetn etnintetta teteceete titningite 300
taaagaaaat cattttgatg caaggtcctg cctgnnatca natccgaagt gctcctgcag 360
tnaccetttn cetggeattt etetteeaeg egacaagtet getagtgaga tettgeatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggen nctgggccaa gactgt
                                                                516
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<211> 284
<212> DNA
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atatatatag atatatatag atatatagat atatatagat atatatagat atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa
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<211> 153
<212> DNA
<213> Homo sapiens
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cacactgagg cctngatgtn ctntaatcac ttg
<210> 803
<211> 383
<212> DNA
<213> Homo sapiens
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<222> (301)
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<221> misc feature
<222> (370)
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 <222> (375)
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<221> misc feature
<222> (383)
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attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttgttc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct atttctttc 240
tttggatgtt ttggattcag tattccttta nccataaatt tttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaa 360
aaagggggn cgcnncagag ggn
                                                                   383
<210> 804
<211> 509
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature.
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<221> misc feature
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<222> (434)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c
<400> 804
ggcacgagct gggttgtcct ttgcatctgc acgtgttcgc agtcgtttcc gcgatgctga 60
ctctggagct cagcacagcc ctggagcacc aggngtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat ttaaattata tgttttgtgc tctcatttat 300
ttatcatttt tttctgtaca aatctattat ttctaggttt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctccccctt caaccgtgtc 420
acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag
                                                                   509
<210> 805
<211> 753
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (718)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (736)
 <223> n equals a,t,g, or c
 <400> 805
 ncaaacccac tocaccttac taccagacaa cottagocaa accatttaco caaataaagt 60
 ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
 actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
 taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acacccacta 540
cctaaaaaat cccaaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg
<210> 806
<211> 404
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (403)
 <223> n equals a,t,g, or c
<400> 806
ggaagaagga ngaaaagcag gaagctggaa aggaaggtac tgcaccatct gaaaatggtg 60
aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatgtt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcaccccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
ttttttttta atcattatga aanagtggga agcttngnag gtna
<210> 807
<211> 428
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (198)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (215)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (258)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (266)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (283)
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 <222> (400)
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 <222> (413)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (417)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c
<400> 807
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cngttcctcc gcctgtnccn tgggggggcc ctnagaggga aggagaggtt tctcacacca 60
 aggcagatgc tcctctggtg ggagggtgnt ggcccggcaa gattgaagga tgtgcagggc 120
 ttcctctcag agccgcccaa actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtaccettg gtatgcentg aacatntggt ttccccacce aantgegget aagtetettt 300
ttccttggat cagccaggcg aaattggggc tttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca gggggtatgn aagggttttc tgncccngga 420
ggnttnag
<210> 808
<211> 403
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (265)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (270)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (286)
  <223> n equals a,t,g, or c
 <220>
  <221> misc feature
  <222> (288)
  <223> n equals a,t,g, or c
 <220>
  <221> misc feature
  <222> (342)
  <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (346)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (349)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (365)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (375)
 <223> n equals a,t,g, or c
<400> 808
 cnagccccga ggggctctcg cttctggcgc caangcccgg ccgcgcgccg gccgggccga 60
 cnccgctccg gggacagtgc caggngggga gtttgactgg ggcggtacac ctgtcaaacg 120
 gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
 gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccgggcctca 240
 cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
 actogottgt ogoggocaag ogttoatago gaogtogott thocangtho gatgtoggat 360
 cttcntatca ttgtnaagca gaattcacca agcgttggat tgt
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<210> 809
<211> 583
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c
<400> 809
tegacecacg egteeggae gaeagttage tatgetgata ecettetgtg aggagttgaa 60
tttgaagacc acttggctgt ttcacaaaac cagaagtaat tacagggtgt tcctgaaaag 120
ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
aaatctgact gtggattatg acaaagatta tcttttttct taagtaatct atttagatcg 240
ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taagggaggt 300
gggagaatga tgacttaccc tgaagtcctt cccttgactg cccgcactgg ggcctgttct 360
gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
ntaaggantc catttaccaa cccgcggttt tgtggtcagt gccccaaggg ggtaggttga 540
agggggctta acaaacatgg aagtnggggg nanaagggat nan
<210> 810
<211> 272
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
 <222> (265)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (266)
 <223> n equals a,t,g, or c
 <400> 810
 ttttttttt tttttggacg ttaaaggcat ttnattccag cgncttctag agagcttagt 60
 gtatacagat gagggtgtcc gctgctgctt tccttcggaa tccagtgctt ccacagagat 120
 tancetgtan ettatatttg acattettea etgtetgttg tinanenace gtagettttt 180
 accepticact teccetteea actateteea gateteeage etecteenet etegaettie 240
. tccaaaggca ctgaccctng gnctnnactt tg
 <210> 811
 <211> 300
 <212> DNA
<213> Homo sapiens
<220>
 <221> misc feature
<222> (8)
<223> n equals a,t,g, or \dot{c}
<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (280)
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<223> n equals a,t,g, or c

```
<400> 811
 ggcagagnat aaaatcttaa agcactcata atatggcatc cttcaatttc tgtataaaag 60
cagatetttt taaaaaagata ettetgtaae ttaagaaace tgggcattta aateatattt 120
 tgtctttagg taaaagcttt ggtttgtgtt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaa acctttgtt ctctccgtga acttaccttt ccctttttct ttctctttt 240
tttttttgga anattaatng tttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300
<210> 812
<211> 478
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (232)
<223> n equals à,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (460)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c
<400> 812
gccaccttac taccagacaa ccttagccaa accatttacc caaataaagt ataggcgata 60
gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccctat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt tgangcgaca 300
aacctaccga gcctggtgat agctngttgt tccaanattg aatccttagt tccactttta 360
atttggcccc aaaaaccccc taattcccct tggttaattt taactgttng tcccaaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaaanaa ttaaaaaa
<210> 813
<211> 63
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<400> 813
gccgcggtcc ttcagactgc ccggagagcg cgctctgcct qccgcctgnn tgnctgncnc 60
```

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<210> 814
 <211> 73
 <212> DNA
 <213> Homo sapiens
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 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c
 <220>
' <221> misc feature
 <222> (37)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (38)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c
 <400> 814
 ggcngacatt cagactgagc gtgcctacca aaagtanncg accatctttc anaacaanaa 60
 gagggtcctg ctg
                                                                    73
 <210> 815
 <211> 102
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (29)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (91)
<223> n equals a,t,g, or c
 <220>
 <221> misc feature
```

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```
<222> (93)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c
<400> 815
gctgccgcct gcctgcctgc cactgaggnt tcccagcacc atgagggcct ggatcttctt 60
tctcctttgc ctggccggga gggccttggc ngnccctcan cn
<210> 816
<211> 379
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220> .
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
<400> 816
gctccacgag ggttcagctg tctcttactt ttaaccagtg aaattgacct gcccgtgaag 60
aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaaaaa tttcggttgg 180
```

```
ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
 gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
 taacagcgca atcctattct agagtccata tcaacaatan ggtttacnac ctcgatgnnn 360
 ggatcaggac attccaatg
                                                                     379
 <210> 817
<211> 500
 <212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (238)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (251)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (259)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (345)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (363)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (480)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c
<400> 817
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cgcgttcgct gcctccttca gctccaggat gatcggccag aagacgctct actcctttt 120
cteccecage eccgecaaga agegacangg ecceaagnee egageeggee gteaagggga 180
ccggngtggc tngggttgct naagaaagcg gaatncgggg ggcatcccag ccaagaangn 240
cccggctggg naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttnccgaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccgnggnc cttgnttaan aatncggggg 360
congnaaang tincocottg gggnttittg gaanaanaac ctgggaaaga aagcanotta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggattttn 480
tttncaaaaa ggaaaggaaa
<210> 818
<211> 329
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<220>
<221> misc feature
·<222> (279)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c
<400> 818
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ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnotnggco toatogcnnt tocatocota ogcatgottt acatagcana 240
cgaggtgacg atgccnccct taccatcaag atcanttgnc caccaatggt acttgaacct 300
acgagtacac ccgaccaccn ggtggacta
                                                                   329
<210> 819
<211> 648
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (547)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (584)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c
<400> 819.
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgctt tttccttttc 60
atctgttgtt ctgtggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttgtt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaatg tgtgggatca ttgcatttcc agaaatctgc ctccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatogttc attgcctttc cagggttatt tagtaaagtt tgttgaaaac aaaaacgcct 360
tttcttggnt ctttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttentanece caaggaette eteantitte aaattgggaa gggnaeetaa aagggggtae 600
aattaaaacc ctggggtaaa gggggnaaaa aaaaaaaaa aaaaaaaa
<210> 820
<211> 469
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c
<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggaga ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaa aaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
tgatatonaa ttoggoacna goaaccotoa ttococaaco cacgooggag gotgogootg 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggentg cttgageaaa atccgccaat tataaaaaaa aaacnetee
                                                                   469
<210> 821
<211> 432
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttgttgc 120
agaaggaagg ggaaacatac atttattcat gccagtctgt tgcatgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctccttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgct ttcctgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaa aaaanccggg ggggggcccg gtaacccatt tccccctana 420
gnggnggggt tt
                                                                   432
<210> 822
<211> 428
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (382)
<223> n equals a,t,g, or c
·<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
<400> 822
aagtetette agtgeacteg etecetetet ggetaaggea tgeattagee actacacaag 60
tcattagtga aagtggtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctcctgtgga ctgtggagct ctggaaggct tggtgggagt gaatttgccc 180
acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctggggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aactttttt tttcccttaa gaattaaaac 420
ggggnana
<210> 823
<211> 100
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (71)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
<400> 823
ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgaccca ntctccgncc ctccctgtct gcagctggta
<210> 824
<211> 173
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (79)
<223> n equals a,t,q, or c
<220> .
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
<400> 824
cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga gaaccacagg tgtacaccct 60
gcccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa
<210> 825
<211> 341
<212> DNA
<213> Homo sapiens
```

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<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
<400> 825
cccaaaccca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacacccct ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t
                                                                   341
<210> 826
<211> 492
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (446)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c
<400> 826
gcaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagnccaa 420
agaggaacaa gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaacccata ct
<210> 827
<211> 290
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c
<400> 827
ggtcgtgctc tcccgggccg ggtccgagcc gcgacgggcg aggggcggac gttcgtggnq 60
aacgggaccg teettetege teegeeeege gggggteeee tegtetetee teteceegee 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggaccc ggcccgacct cgccgtcccg 180
cccgccgcct tctgcgtcgc gggtgcgggc cggcggggtc ctctgacgcn gcagacagcc 240
ctcgctgtcn cctccagtgg angncgactt gcgggcggta ctcctacgan
<210> 828
<211> 420
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (405)
<223> n equals a,t,g, or c
<400> 828
gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttggagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagageng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tattttttt aagtgggaga agggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtettg teggeaagge agesteetgg coantitete tgeteatgtt tetggttage 360
agagttcaga gccaattgtt tnacttcttg gttgtncccg tgnangaagc ctttcaaaac 420
<210> 829
<211> 298
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (129)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (171)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (181)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c
<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tggagagtga caaaatggtg acaggtagct ggggacctag gctatctcnc catgaaggtt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240
```

```
agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca
                                                                     298
 <210> 830
 <211> 516
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c
<220>
 <221> misc feature
 <222> (21)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223 n equals a,t,g, or c
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<220>

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<221> misc feature
 <222> (513)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c
· <400> 830
 neggnaactn etcactatag ntgaaagetg gtacneetge aggtaceggt eeggaattee 60
 cgggggcatc cccttgtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
 agagagtett egggagagga ggaggagtag ggeegeeteg gggetgggea teeggeeeet 180
 ggggccaccc cttgtcagcc gggtgggtag gaaccgtaga ctcgctcatc tcgcctgggt 240
 ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
 gaagtttaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
 tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
 agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaaa gatangnatt 480
 aatccccttc attggtntcc aaaagccaat aangng
 <210> 831
 <211> 636
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (414)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,q, or c
 <220>
 <221> misc feature
 <222> (530)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c
 <400> 831
 ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
 caatgttctt ggcccatcat gacattgggt agcattaact gtaagttttg tgcttccaaa 120
 tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180
```

```
tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaaaa aggccgcatg atctttctgg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
catcctattt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatgggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggattttc 600
tttaaaggaa ctctaanaca ggcaaggttc tgatgt
                                                                   636
<210> 832
<211> 466
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c
<400> 832
gatcagatta tgagttactg tttaaaagaa aaatgctgtt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttaa ttcaccccac actagaaatg cagcatcttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatatt gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttgtt agtggtctga 300
aataattatt ttcctgttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattaccaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt tttaacccac ggntangttc tanatttatt ctttcn
<210> 833
<211> 405
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<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (278)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<400> 833
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
atctgactca ttctttattc tattttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggt attaccctcc taatagtcat actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaatg tttctcagga aaaaa
                                                                   405
<210> 834
<211> 402
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
 <222> (390)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
<400> 834
gcaaacccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatgtt ggatcaggac 240
atcccgatgg tgcagccgct attaaaggtt cgtttgntca acgattaaag tcctacgtga 300
totgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt
<210> 835
<211> 121
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c
<400> 835
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
<210> 836
<211> 411
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
<400> 836
agtaagcctg ccagacacgc tgtggcggct gcctgaagct agtgagtcgc ggcgccgcgc 60
acttgtggtt gggtcagtgc cgcgcgccgc tcggtcgtta ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcaccccca ccaaccagat ccgcctaacc aatgtggccg tggtacggat 240
gaagegegee aggaageget tegaaatege ttgetacaga aacaagtegt eggetggegg 300
agggctttgg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttncca 360
```

```
aagtcagttt ccaaaaggaa attcancagg ggtttggaaa atgccaanga a
                                                               411
<210> 837
<211> 386
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
geggeagete ageaagtggt ggaccaggee acagaggegg ggcagaaage catggaccag 60
ctggccaaga ccacccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
tetgggateg ggaaaaaatt eggeeteetg aaatgacage agggagaett gggteggeet 180
cctgaaatga tagcagggag acttgggtga cccccttcc aggcgccatc tagcacagcc 240
tggccctgat ctccgggcag ccaccacctc ctcggtctgc cccctcatta aaattcacgt 300
aaaaaaaaa ngnnnn
                                                              386
<210> 838
<211> 124
<212> DNA
<213> Homo sapiens
<400> 838
gctttcaata gatcgcagcg agggagctgc tctgctacgt acgaaacccc gacccagaag 60
caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
gagg
                                                              124
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<210> 839
<211> 270
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c
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<400> 839

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atctggttgt ggttacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
 gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgagggnctg gggtgagggt 120
 taatgttcgn accagtgctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa
                                                                    270
<210> 840
<211> 430
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (409)
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<223> n equals a,t,g, or c

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<400> 840
ctctacatca ccgccccgac cttagctctc accatcgctc ttctactatg aaccccctc 60
cccataccca accccctggt caacctcaac ctaggcctcc tatttattct agccacctct 120
agectageeg tttactcaat cetetgatea gggtgageat caaactcaaa ctacgeeetg 180
atoggogoac tgcgagcagt agcccaaacn atotoatatg aagtcaccot agccatcatt 240
cctactatca acattactaa tnngttggct cctttaacct ctccaccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata accctttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataatcttca 420
ggttcaaatt
<210> 841
<211> 650
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c
<400> 841
gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctcgcactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcgttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
```

accaataata ccaatcaata ctcatcatta ataatcataa tggctatagc aataaaacta 300

```
ggaatagccc cctttcactt ctgagtccca gaggttaccc aaggcacccc tctgacatcc 360
 ggcctgcttc ttctcacatg acaaaaacta gcccccatct caatcatata ccaaatctct 420
 ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
 tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
 cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
 ttaactaatt atattaatcc taactactac ggantctact actaacttaa
<210> 842
<211> 509
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c
<400> 842
gcctgtgtct gctaaaaaag aaaagaaagt ttcctgcatg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgcca ttgtggcccg 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggcaatcat attatctcag ggacatgcgc atcatggcgt ggcaagagcc ttcgggttca 300
gaagatcagg cottotatco tgggctgcaa catcottcga gttgaatatt cottactgat 360
ctatgttagc gttcctggat ccaagaaggt catccttgac ctgccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc
                                                                   509
<210> 843
<211> 158
<212> PRT
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- Carrier Carrier

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<213> Homo sapiens
  <400> 843
  Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
                                      10
  Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
  Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Glý Ala Asp Thr Pro
  Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
  Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
                      70
                                          75
  His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
                                      90
  Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
              100
                                 105
                                                     110
  Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
  Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
                        135
  Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
                     150
                                         155
 <210> 844
 <211> 601
 <212> PRT
<213> Homo sapiens
 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (64)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (383)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 844
Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
                                     10
Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Trp Arg
                                 25 .
                                                     30
Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
                             40
Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
                         55
Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
            100
Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
                            120
Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
                        135
                                            140
```

Leu 145	Ser	Ser	Asp	Pro	His 150		Xaa	Glu	Pro	Gly 155		Met	Val	. Arg	Gly 160
Val	Gly	Gly	Thr	Pro 165	Arg	Asp	Ser	Ala	Gly 170		Ser	Pro	Phe	Pro 175	Pro
Lys	Arg	Arg	Glu 180	Arg	Pro	Pro	Arg	Lys 185	Pro	Glu	Leu	Leu	Gln 190		Glu
Ser	Leu	Pro 195	Pro	Pro	His	Ser	Ser 200	Gly	Phe	Leu	Gly	Ser 205	Lys	Pro	Glu
Gly	Pro 210	Gly	Pro	Gln	Ala	Glu 215	Ser	Arg	Asp	Thr	Gly 220	Thr	Glu	Ala	Leu
Thr 225	Pro	His	Ile	Trp	Asn 230	Arg	Leu	His	Thr	Ala 235	Thr	Ser	Arg	Lys	Ser 240
Tyr	Arg	Pro	Ser	Ser 245	Met	Glu	Pro	Trp	Met 250	Glu	Pro	Leu	Ser	Pro 255	Phe
Glu	Asp	Val	Ala 260	Gly	Thr	Glu	Met	Ser 265	Gln	Ser	Asp	Ser	Gly 270	Val	Asp
Leu	Ser	Gly 275	Asp	Ser	Gln	Val	Ser 280	Ser	Gly	Pro	Cys	Ser 285	Gln	Arg	Ser
Ser	Pro 290	Asp	Gly	Gly	Leu	Lys 295	Gly	Ala	Ala	Glu	Gly 300	Pro	Pro	Lys	Arg
Pro 305	Gly	Gly	Ser	Ser	Pro 310	Leu	Asn	Ala	Val	Pro 315	Cys	Glu	Gly	Pro	Pro 320
Gly	Ser	Glu	Pro	Pro 325	Arg	Arg	Pro	Pro	Pro 330	Ala	Pro	His	Asp	Gly 335	Asp
Arg	Lys	Glu	Leu 340	Pro	Arg	Glu	Gln	Pro 345	Leu	Pro	Pro	Gly	Pro 350	Ile	Gly
Thr	Glu	Arg 355	Ser	Gln	Xaa	Thr	Asp 360	Arg	Gly	Thr	Glu	Pro 365	Gly	Pro	Ile
Arg	Pro 370	Ser	His	Arg	Pro	Gly 375	Pro	Pro	Val	Gln	Phe 380	Gly	Thr	Xaa	Asp
Lys 385	Asp	Ser	Asp	Leu	Arg 390	Leu	Val	Val	Gly	Asp 395	Ser	Leu	Lys	Ala	Glu 400
Lys	Glu	Leu	Thr	Ala 405	Ser	Val	Thr		Ala 410	Ile	Pro	Val	Ser	Arg 415	Asp

Trp	Glu	Leu	Leu 420		Ser	Ala	Ala	Ala 425		Ala	Glu	Pro	Gln 430	Ser	Ly
Asn	Leu	Asp 435		Gly	His	Cys	Val 440	Pro	Glu	Pro	Ser	Ser 445	Ser	Gly	Gli
Arg	Leu 450	Tyr	Pro	Glu	Val	Phe 455	Tyr	Gly	Ser	Ala	Gly 460	Pro	Ser	Ser	Sei
Gln 465	Ile	Ser	Gly	Gly	Ala 470	Met	Asp	Ser	Gln	Leu 475		Pro	Asn	Ser	Gl ₃ 480
Gly	Phe	Arg	Pro	Gly 485	Thr	Pro	Ser	Leu	His 490	Pro	туг	Arg	Ser	Gln 495	Pro
Leu	Tyr	Leu	Pro 500	Pro	Gly	Pro	Ala	Pro 505	Pro	Ser	Ala	Leu	Leu 510	Ser	Gly
Val	Ala	Leu 515	Lys	Gly	Gln	Phe	Leu 520	Asp	Phe	Ser	Thr	Met 525	Gln.	Ala	Thr
Glu	Leu 530	Gly	Lys	Leu	Pro	Ala 535	Gly	Gly	Val	Leu	Tyr 540	Pro	Pro	Pro	Ser
Phe 545	Leu	Tyr	Ser	Pro	Ala 550	Phe	Cys	Pro	Ser	Pro 555	Leu	Pro	Asp	Thr	Ser 560
Leu	Leu	Gln	Val	Arg 565	Gln	Asp	Leu	Pro	Ser 570	Pro	Ser	Asp	Phe	Туг 575	Ser
Thr	Pro	Leu	Gln 580	Pro	Gly	Gly	Gln	Ser 585	Gly	Phe	Leu	Pro	Ser 590	Gly	Ala
Pro	Ala	Ser 595	Arg	Cys	Phe	Tyr	Pro 600	Trp							

<210> 845 <211> 67 <212> PRT

<213> Homo sapiens

<400> 845

Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro 1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
20 25 30

```
Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly 35

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys 50

Ser Ile Asp 65
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<210> 846
<211> 146
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
                           40
Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
65 70
Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
                85
                                    90
Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
                               105
```

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<210> 847
 <211> 184
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 847
Ala Arg Met Ala Ala Asp Lys Xaa Pro Ala Ala Gly Pro Arg Ser Arg
Ala Ala Met Ala Gln Trp Arg Lys Lys Gly Leu Arg Lys Arg Arg
Gly Ala Ala Ser Gln Ala Arg Gly Ser Asn Ser Glu Asp Gly Glu Phe
                            40
Glu Ile Gln Ala Glu Asp Asp Ala Arg Ala Arg Lys Leu Gly Pro Gly
                        55
Arg Pro Leu Pro Thr Phe Pro Thr Ser Glu Cys Thr Ser Asp Val Glu
Pro Asp Thr Arg Glu Met Val Arg Ala Gln Asn Lys Lys Lys Lys
                                    90
Ser Gly Gly Phe Gln Ser Met Gly Leu Ser Tyr Pro Val Phe Lys Gly
          100
                               105
Ile Met Lys Lys Gly Tyr Lys Val Pro Thr Pro Ile Gln Arg Lys Thr
                           120
Ile Pro Val Ile Leu Asp Gly Lys Asp Val Val Ala Met Ala Arg Thr
                      135 140
Gly Ser Gly Lys Thr Ala Cys Phe Leu Leu Pro Met Phe Glu Arg Leu
                   150
                                   155
Lys Thr His Ser Ala Gln Thr Gly Ala Arg Ala Ser Ser Ser Arg Arg
                                   170
```

Pro Glu Xaa Trp Pro Cys Arg Pro 180

<210> 848 <211> ·160 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (35) <223> Xaa equals any of the naturally occurring L-amino acids <400> 848 Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr 1 5 10 Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu 20 25 🍱 Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His 50 55 60 Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr 70 75 80 Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu 85 90 95 Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu 100 105 Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly 115 120 125 Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu 130 . 135 140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu

155

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<211> 75
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
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Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
 65
                     70
<210> 850
<211> 383
<212> PRT
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<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
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                    . 10
Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
             20
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Glu	Ile	Glu 35		. Ala	Pro	Pro	Lys 40		His	Glu	Val	Arg 45	Ile	Lys	Ile
Ile	Ala 50		Ala	. Val	Cys	5 5		Asp	Ala		60		Ser	Gly	Ala
Asp 65	Pro	Glu			70		Val			75	His	Glu			Gly 80
Ile	Val		Ser	Val 85	Gly	Glu	Gly	Val	Thr 90	Lys	Leu	Lys	Ala	Gly 95	
Thr	Val			Leu						Gly					Cys
		Pro	Lys	Thr	Asn	Leu	Cys 120	Gln	Lys	Ile	Arg	Val 125	Thr	Gln	Gly
			Met		Asp	Gly 135	Thr	Ser	Arg	Phe	Thr 140	Cys	Lys	Gly	Lys
Thr 145	Ile	Leu	His	Tyr	Met 150	Gly	Thr	Ser	Thr	Phe 155	Ser	Glu	Tyr	Thr	Val 160
Val	Ala	Asp	Ile	Ser 165	Val	Ala	Lys	Ile	Asp. 170	·Pro:	Leu	Ala	Pro	Leu: 175	Asp
Lys	Val		180					185		Thr			190		Ala
Val	Asn	Thr 195	Ala	Lys	Leu	Glu	Pro 200	Gly	Ser		Cys	Ala 205	Val		Gly
Leu	210	Gly	Val	Gly	Leu	Ala 215	Val	Ile	Met	Gly	Cys 220	Lys	Val		_
Ala 225						Val	Asp	Ile	Asn	Lys 235	Asp		Phe	Ala	240
Ala	Lys	Glu	Phe	Gly 245	Ala				11e 250	Asn	Pro	Gln	Asp	Phe 255	
Lys	Pro	Ile	Gln 260					265	Met	Thr	Asp	Gly	Gly 270	Val	Asp
Tyr	Ser 	Phe 275			Ile	Gly			Lys	Val	Met	Arg 285	•		Leu
Glu	Ala 290	Cys	His	Lys	Gly					Xaa		Val			

Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly 305 310 310 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser 325 330 335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp 340 345 350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe 355 360 365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile 370 375 380

<210> 851

<21.1> 154

<212> PRT

<213> Homo sapiens

<400> 851

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1 5 10 15

Val Gly Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro 20 25 30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala 35 40 45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe 50 55 60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu 65 70 75 80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu 85 90 95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
100 105 110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
115 120 125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn 130 135 140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met

145

797

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	<40	0> 8	52													
				:Val	Asp	Pro	: Arq	val	Arq	· Ala	:Ile	. Ile	::Ala	Lvs	-Thr	Phe
	1		_		5		_		,	10				-	15	
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	Lys	::Gl'y	"Arg			Thr	Gly	: Val			Lys	: Glu	::Ser			··Gly
		•		20	*				25	_•				30	;	
	Lvs	: Pro	Leu	Pro	. Lvs	. Asn	Met	Ala	- G1 13	Gla	· T1e	. Tie	Glà	Glu	- T l o	Tyr
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	Ser			Gln	Ser	Lys			Ile	Leu	Ala	. The	Pro	::Pro	Gln	-Glu
		50					5 5	٠.				60				
	Asp	·Ala	Pro	Ser	Val	· Acn	·Tlà	I. a.	. Acm	Tlo	. 2	. Mot	- D=0	- 64-	. 7	.Pro
	65			· JGI	· Val	70		ALG	: ASII	. 11 -	7.5		PLO	ser	: reu	80.
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	Ser	Tyr	:Lys	Val	Gly	Asp	Lys	lle	Ala	.Thr:	Arg	. Lys	Ala	Tyr	Gly	Gln
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	A 1 a.	T 🚓	21-	. 7	T	61				•		-1.			_	_
	ATG	rea	ALd:	100		. GTA:	HIS	. Ala	. ser		Arg	· IIe.	:Ile:	:ALA 110		Asp
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	Gly	Asp	Thr	Lys.	Asn	Ser.	Thr:	Phe	ser	Glu	Ile	Phe	Lys	Lys	Glu	His
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	.							_								
	PFO.	130		Pne	:IIe	Glu.	Cys 135.		Ile	Ala:	GLu	Gln.		Met	Val	Ser
		150					£ 3 3					140	•			
	Ile	Ala	Val	Gly	Cys	Ala	Thr	Arg	Asn	Arg	Thr	Val	Pro	Phe	Cys	Ser.
	145					150		-			155.				•	160
			_													
	Thr	Phe	Ala	Ala		Phe	Thr	Arg.	Ala.		Asp	Gln-	Ile	Arg		Ala
					165					170					175	
į	Ala:	Ile	Ser	Glu:	Ser	Asn.	Ile	Asn	Leu	Cvs	Glv	Ser-	His	Cvs	Glv	Val
				180					185					190	1.	
:	Ser	Ile			Asp.	Gly	Pro			Met _.	Ala .	Leu		Asp .	Leu	Ala,
			195					200					205			
,	Met ·	Phe	Ara-	Ser	Val	Pro	ምኮ ፦ •	Ser	Th∽	Va 1	Dhe	ጥህም	Dro	Se~	A c =	Gly ·
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210.

Va1 225	Ala	Thr	Glu	Lys	Ala 230	Val	. Glu	Leu	Ala	Ala 235		Thr	Lys	Gly	11e 240
Суѕ	Phe	Ile	Arg	Thr 245		Arg	Pro	Glu	Asn 250		Ile	Ile	Tyr	Asn 255	Asn
Asn	Glu	Asp	Phe 260	Gln	Val	Gly	Gln	Ala 265	Lys	Val	Val	Leu	Lys 270	Ser	Lys
Asp	Asp	Gln 275	Val	Thr	Val	Ile	Gly 280	Ala	Gly	Val	Thr	Leu 285	His	Glu	Ala
Leu	Ala 290	Ala	Ala	Glu	Leu	Leu 295	Lys	Lys	Glu	Lys	Ile 300	Asn	Ile	Arg	Val
Leu 305	Asp	Pro	Phe	Thr	Ile 310	Lys	Pro	Leu	Asp	Arg 315		Leu	Ile	Leu	Asp 320
Ser	Ala	Arg	Ala	Thr 325	Lys	Gly	Arg 	Ile	Leu 330	Thr	Val	Glu	Asp	His 335	Tyr
Tyr	Glu	Gly	Gly 340	Ile	Gly	Glu	Ala	Val 345	Ser	Ser	Ala	Val	Val 350	Gly	Glu
Pro	Gly	11e 355	Thr	Val	Thr	His	Leu 360	Ala	Val	Asn	Arg	Val 365	Pro	Arg	Ser
Gly	Lys 370	Pro	Ala	Glu		Leu 375	Lys	Met	Phe	Gly	Ile 380	Asp	Arg	Asp	Ala
Ile 385	Ala	Gln	Ala	Val	Arg 390	Gly	Leu	Ile	Thr	Lys 395	Ala				
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<400	> 85	3	ė								•				
			Gly :	Leu	Gln :	ser	Cys	Gly	Leu	Ser	Thr	Gln .	Ala	Ile	Thr
1			-	5			-	-	10					15	

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His

			20					2,5					30		
Ala	Arg	Gln 35		Met	Arg	.Val	Thr 40	Leu	Ala	Thr	Ile	Ala 45	Trp	Met	Val
Ser	Phe 50	Val	Ser	Asn	Туг	Ser 55			Ala	Asn	Ile 60		. Pro	Asp	Ile
Glu 65			Asp	Phe		Lys		Суз	Val		The		Asn	Lys	Phe 80
Arg	Ser	Glu	Val		Pro		Ala	Ser		Met		Tyr	Met	Thr. 95	_
Asp	Pro	Ala	Leu 100			Ile	Ala		Ala		Ala	Ser 	Asn 110	Cys	-
Phe	Ser		Asn		Arg	Leu		Pro		His	Lys		His	Pro	Asn
Phe		Ser		Gly	Glu		Ile	_	Thr	Gly		Val	Pro	Ile	Phe
Ser 145	Val		Ser	Ala	11e	Thr		Trp	Tyr		Glu U (A)		Gln	Asp	Туг 160
Asp	Phe	Lys.	Thr.		Ile		Lys.	Lys		Cys			Tyr	Thr. 175	
Va [·] l·	Val	Trp		Asp	Ser	Týr	Lys	Val 185	Gly	Cys	Ala	Val	Gln 190	Phe	Cys
Pro	Lys	Val 195	Ser	Gly	Phe	Asp	Ala 200	Leu	Ser	Asn	Gly	Ala 205	His	Phe	Ile
	Asn 210	. • •	Gly		Gly	Gly 215	Asn	Tyr	Pro	Thr	Trp 220	Pro	туr	Lys	Arg
Gly 225					230					235		_	Leu	_	Asn 240
			Asn	Arg 245	Gln	Arg	Asp	Gln	Val 250	Lys	Arg	Tyr	Tyr	255	•
				Trp									Thr 270		
Phe	Leu	Ile 275	Val	Asn	Ser	Val	Ile 280	Leu	Ile	Leu			Ile	Ile	Thr
Ile	Leu	Val	Gln	His	Lys	Tyr	Pro	Asn	Leu	Val				•	

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300

295

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Lys	Asn	Phe 195		Asp	Ile		Gln 200	Lys	Gln	Arg	Pro	205	Arg	Val	Ser
His	Leu 210	Leu	Gln	Asp	Asn	Leu 215	Pro	Lys			220			Gln	Tyr
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Asp 225		Phe	Phe	Glu		Lys	Ile	Asp	Glu	Xaa 235	Lys	Glu			
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			Ile	Phe	Thr	Glu	Gln	Ser	Met	Ile	Thr	Phe	Leu	Pro	Leu
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Leu	Leu	Gly	Leu	Ser	Leu	Gly	Cys	Thr	Glv	Ala	Glv	Glv	Phe	Val	Ala
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His	val.	Glu-	Ser	Thr	Cys	Leu	Leu	Asp	Asp	Ala	Gly	Thr	Pro	Lys	Asp
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Phe	Thr	Týr	Cys	Ile	Ser	Phe	Asn	Lys	Asp	Leu	Leu	Thr	Cys	Trp	Asp
				#12.77											<u>.</u>
				Lys										Asn	Ser
65		;	** *	.5	70~					75		-	٠.		80
			*												
Leu	Ala	Asn	Val	Leu	Ser	Gln	His	Leu	Àsn	Gln	Lys	Asp	Thr	Leu	Met
	•	7.1	-	85	*		٠.		90-	: .		•		95	
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Gln															Pro
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Phe	Trp	Gly	Ser	Leu	Thr	Asn	Arg	Thr	Arg	Pro	Pro	Ser	Val	Gln	Val
		115:-		• •			120				: :	125⊹			
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Asn	Gly	Lys	Leu	Val 165		Pro	His	Ser	Ser 170	Ala	His	Lys	Thr	Ala 175	Gli
Pro	Asn	Gly	Asp 180	Trp	Thr	Tyr	Gln	Thr 185		Ser	His		Ala 190	Leu	Thi
Pro	Ser	Туг 195		Asp	Thr	Tyr				Val			Ile	Gly	Ala
Pro	Glu 210	Pro	Ile	Leu	Arg					Gly			Pro	Met	Glr
Thr 225	Leu	Lys	Val	Ser						Leu 235					Ile 240
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<400> 856

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Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro Val Tyr
20 25 30

Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu Asp Phe 35 40 45

Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val Val Asn 50 55 60

Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys Ser Ser 65 70 75 80

Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu 85 90 95

His	Glu	. Le	Gly 100		Pro	Glu	Phe	2 Arg		Thr	Ala	Gly	/ IÌe		s _. Gly
Asn	Glu	Val	;	Gly	Arg	Glu	120		Leu	ı Leu	Leu	Met		Tyr	Leu
Cys	Arg	Glu		Arg	Asp	Gly 135	Asn		Arc	Val	Arg		Trp	Cys	Arg
			Ser		-			His		- T- 12	· 1 ,	:::		•	ή.
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Cys 1	Leu	Ser	Gln	Lys - 5	Ala	Val	Arg	Ala	Pro 10		Phe	Leu	Arg	Gly 15	Leu
Pro	Ser	Gly	Arg 20	Val	Asn	Суз	Phe	Leu 25	Gln	Ala	Gly	His	Gly 30	Ala	Ser
Arg	Ser	Gln 35	Gly	Ser	Gly	Leu	Cys _40	Gln	Met	Leu	Lys	Glu 45	Gly	Ala	Lys
His	Phe 50	Ser	Gly	Leu	Glu	Glu 55	Ala	Val	Tyr	Arg	Asn 60	Ile	Gln	Ala	Cys
Lys 65	Glu	Leu	Ala	Gln	Thr 70	Thr	Arg	Thr	Ala	Tyr 75	Gly	Pró	Asn	Gly	Met 80
Asn	Lys	Met	Val	Ile 85	Asn	His	Leu	Glu	Lys 90	Leu	Phe	Val	Thr.	Asn 95	Asp
Ala	Ala	Thr	11e 100	Leu		Glu	Leu	105	Val	Gln	His		110	Ala	Lys
Met		115	Met	Ala	Ser		Met 120	Gln	Glu	Gln	Glu		Gly	Asp	Gly
Thr		•	Val	•					Ala	Leu	Leu 140	Glu	Leu	Ala	Glu
145	Leu	Leu	Arg		150					Glu 155	Val	Ile	Glu	Gly	Tyr 160
			Cys			Ala	His	Glu	Ile	Leu	Pro	Asn	Leu	Val	Cys

165 170 175 Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu 180 185 Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala 200 205 Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His 215 220 Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile 225 230 Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu 245 250 Val Met <210> 858 <211> 143 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (14) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (135) <223> Xaa equals any of the naturally occurring L-amino acids <400> 858 Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro 10 Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly 20 Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys 50 Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val

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Phe	Ser	Asn	100)				Val 105	i				110	_	_
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<222												. 5			
<223	8> X	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	nino	acio	is
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<223	> X	aa e	qual	s an	y.of	the	nat	ural	ly o	ccur	ring	L-ar	nino	acio	is ·
Val	Thr	Met	Ala	Gl'n	Gln	Ala	Ala	Asp	Lys	Tyr	Leu	Tyr	Val	Asp	Lys
1				5					10					15	
															:.
Asn	Phe	Ile	Asn	Asn	Pro	Leu	Ala	Gln	Ala	Asp	Trp	Ala	Ala	Lys	Lys
		. ,	20 ·.					25					30		
Leu	Val	Trp 35	Val	Pro	Ser		Lys 40	Ser	Gly	Phe	Glu	Pro 45	Ala	Ser	Leu
Lys	G) II	Gl 13	Va 1	Gly	Gl.	Glu	A1 =	Tla	t/a 1	G1	T 0.11	Wa 1	C1	2	G1
, 2,3	50		Val	Gly	GIU	55	AIG	116	Val	GIU	60	Val	GIU	ASII	GIY
Lys	Lve	.Va 1	T.ve	Val	Asn	Lve	Asn	Aen	Tle	G) n	T.ve	Me+	Acn	Dro	Dro
65					70	-,5				75	Jys	AC.	nall	r I O	80
Lys	Phe	Ser	Lys	Val 85	Glu	Asp	Met	Ala	Glu 90	Leu	Thr	Cys	Leu	Asn 95	Glu
Ala	Ser	Val	Leu	His	Asn	Leu	Lvs	Glu.	Ara ·	Tvr	Tvr	Ser	Glv	Leu .	Ile

100 105 110 Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser 115 120 125 Glu Val Gly Xaa Xaa Ala Gly 130 135 <210> 860 <211> 52 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <400> 860 Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe 1 5 10 15 Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr 20 25 Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys 40 45 Gly Pro Arg Asn 50 <210> 861 <211> 321 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <400> 861 Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser 20 25

Gly	' Ser	Ala 35		Thr	Leu	Val	His		Gly	Thi	Ser	Ala 45		g Alá	a Thr
Thr	Th.r 50		Ala		Lys	Ser 55		Pro	Phe	: Ser	: Ile		Ser	His	His
Ser 65		Thr	Pro	Thr	Thr 70		Ala	Ser	His	Ser 75		Lys		. Asp	Ala 80
Ser	Ser	Thr	His	His 85		Thr		Pro	Pro 90		Thr		Ser	95	His:
Ser	Thr	Ser	Pro 100	Gln	Leu	Ser	Thr	Gly 105		Ser		Phe	Phe 110		Ser
Phe	His	11e 115	Ser	Asn	Leu	Gln	Phe 120	Asn	Ser		Leu	Glu 125		Pro	Ser:
Thr	Asp 130		Tyr		Glu	Leu 135	Gln	Arg	Asp.	Ile	Ser 140		Met	Phe	Leu
Gln 145	Ile	Tyr	Lys	Glŋ	Gly 150	Gly	Phe	Leu	Gly	Leu 155		Asn		Ly.s:	Phe 160
Arg	Pro	Gly:	Ser	Val 165	Va L	Val		Leu:	Thr 170	Leu	Ala	Phe	Ar <u>g</u>	Glu 175	Gly
Thr	Ile	A <u>s</u> n	Val 180	His	Asp	Val	Glu	Thr. 185	Gln.	Phe-	Asn	Glņ	Tyr 190	Lys	Thr.
Glu	Ala,	Ala 195	Ser	Arg	Туғ	Asn	Leu; 200	Thr	Ile	Ser	Asp	Val 205	Ser	Val-	Ser.
Asp	Val 210	Pro	Phe	Pro	Phe	Ser 215	Ala	Gln,	Ser.	Gly.	Ala 220	Gly	Val	Pro	Gly
Trp 225	Gly-	Ile	Ala	Leu	Leu 230	Val	Leu	Val-	Cys.	Val. 235	Leu	Val	Ala	Leu	Ala. 240
Ile	Val	Tyr	Leu	Ile 245	Ala	Leu	Ala.	Val.	Cys 250	Gln	Cys	Arg	Arg	Lys ⁻ 255	Asn
ryr	Gly	Gln	Leu 260	Asp	Ile	Phe	Pro:	Ala <u>:</u> 265	Arg.	Asp	Thr	Tyr	His 270	Pro	Met
Ser	Glu _:	Tyr 275	Pro-	Thr	Tyr	His.	Thr. 280	His.	Gly-	Arg	Tyr	Val 285	Pro	Pro	Ser
er	Thr 290	Asp	Arg	Ser		Tyr 295	Glu-	Lys	Val:	Ser	Ala 300	Gly	Asn	Gly.	Gly.

Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn

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His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu

				165					170)				175	i.
	His		Leu : 180		Leu	Val	Ile	Leu 185		Pro	Gln	Asn	Leu 190	_	His
Arg	Leu						Ala 200								Ala
															Thr
Leu	Pro	Arg	Ile	Lys	Val	Thr	Thr	Ser	Gln	Asp	Met	Leu	Ser	Ile	Met 240
Glu	Lys	Leu	Glu	Phe	Phe	Asp	Phe	Ser	Tyr	Asp	Leu	⊹5 Asn	Leu	Cys	Gly
						- 5					€0				oly Thr
: .	1		260	i to	<u>.</u>	2-0	72, 3	265	: : :: ? †;	lyg ll Ala	(14	#1m	270		X
• , "	, ;	27 5	- 	= 7 :		Alz	280	1.3	·	ion	7300	285	T (F)	₹ ₁ ;	
															Phe
										Phe 315			Phe	Met [.]	Gly 320
Arg	Val	Tyr	Asp	Pro 325	Arg	Ala							,		:
															-
<211	0> 8 <i>6</i> l> 8 <i>6</i> 2> PF	5		• • • •											
•	3> Hc 0> 86		_	ns				••;	٠			1,-:-	2 143		<i>:</i>
			Val	His .5	Leu		Leu	Thr		Arg		Asn		Lys 15	Cys
Ser	His	His	Thr 20	Asn	Pro	Lys	Val	Thr 25	Met	Phe	Ser	Pro	His 30	Lys	Pro
Lys	Gly	Asn 35	Tyr	Val	Leu	Ile	Ser 40	Leu	Ile	Val	Val	Thr 45	Ile	Ser	Gln

Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile

55

Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn 65 70 75 80

Ser His Lys Ile Gln Ile 85

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<212> PRT

<213> Homo sapiens

<400> 864

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Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
20 25 30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser 35 40 45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr 50 55 60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser 65 70 75 80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly 85 90 95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly 100 105 110

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Lys Arg 130

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Met	Ala	Ala 35	Ala	Glu	Gly	Ser	Ser 40	Gly	Pro	Ala	Gly	Leu 45		.: Leu	Gly
Arg	Ser 50		Ser	Asn	Tyr	Arg 55		Phe	Glu	: Pro	Gln 60		Leu	Gly	Leu
Ser 65	Pro	Ser	Trp		Leu 70		Gly		Ser	Gly 75	Met	Lys	Gly		: :
	: ·			> 	· .		• •	. :	:	:	٠,	• • • •			\$ <u>.</u>
<21	0> 8 1> 5 2> P		·			•	<u>.</u>			'		· · · <u>·</u>	2 1. 2 -		. :
<21	3> H	OWO:	sapi	ens	J J.	a di	··· .			tv = 2, 41	÷	t	: :: <u>-</u>	: :	
<22	-												-		
<22:	1> :s: 2> (:	ITE 8\	:	: 3.			 -	. :		ç · ·			٠,	<i>-</i>	;
	3> X		quals	s an	v of	the	nati	ıral	lv o	CUE	rina	L-ai	nino	aci	ds
			-	•					-, 0.	····	9				
<22	0> 1> s: 2>:(!	ITE 517)			ī.				- -				· .:		
<22 <22 <22	0> 1> s: 2> (! 3> Xa	ITE 517) aa ed	guals		ī.				- -				· .:		
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<22: <22: <22: <400 Pro	0> 1> 5: 2> (! 3> Xa 0> 80 Pro	ITE 517) aa eo 56 Pro	quals Glu	Pro	y of Arg	the	nati	ural:	ly oo Ala 10	Glu	ring Asn	L-ar	mino Ser	acid	ds
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			100	1				105	5				110)	
Pro	Pro) Ile 115			Leu		Lys		Gly	/ Ile	Leu	125		e Leu	ı Val
Lys	Cys 130		Glu	Arg	Asp	Asp 135		Pro	Ser	Leu	Gln 140		e Glu	ı Ala	a Ala
Trp		Leu	Thr		11e				Thr				Thr	Gln	
Val	Val	Gln	Ser	Asn 165	Ala	Val	Pro		Phe 170					_	Ser
Pro	His	Gln	Asn 180		Cys	Glu		Ala 185							Ile
Ile	Gly	Asp 195		Pro	Gln	Cys	Arg 200		Tyr		Ile			Gly	Val
Val	Lys 210		Leu	Leu -	Ser	Phe 215		Ser		Ser	Ile 220		Ile		Phe
Leu 225		Asn	Val	Thr	Trp 230		Ile	Val		Leu - 235				Lys	
Pro	Pro	Pro	Pro	Met 245	Glu	Thr	Val	Gln	Glu 250		Leu	Pro	Ala	Leu 255	_
Val	Leu	Ile	Туг 260		Thr		Ile			Leu		Asp	Thr 270		Trp
Ala		Ser 275	Tyr	Leu	Thr	Asp	Gly 280	Gly	Asn	Glu	Gln	Ile 2 ° 85	Gln	Met	Val
Ile	Asp 290	Ser	Gly	Val	Val	Pro 295	Phe	Leu	Val	Pro	Leu 300	Leu	Ser	His	Gln
Glu 305	Val	Lys	Val	Gln	Thr 310	Ala	Ala	Leu	Arg	Ala 315	Val	Gly	Asn	Ile	Val 320
Thr	Gly	Thr	Asp	Glu 325	Gln	Thr	Gln	Val	Val 330	Leú	Asn	Cys	Asp	Val 335	Leu
Ser	His	Phe	Pro 340	Asn	Leu	Leu _.	Ser	His 345	Pro	Lys	Glu <u>.</u>	Lys	11e 350	Asn	Lys
Glu	Ala,	Val 355	Trp	Phe	Leu	Ser	Asn 360	Ile	Thr	Ala	Gly	Asn- 365	Gln	Gln	Gln
Val	Gln	Ala	Val	Ile-	Asp	Ala	Glv	Leu	Ile	Pro	Met	Ile	Ile	His	Gln

	3/0	,				3/5)				38()			
Leu 385		Lys	Glý	/ Asp	9 Phe		. Thr	- Glr	ı. Lys	395		a Ala	a Trį	Ala	400
Ser	Asn	Leu	Thr	1le 405		Gly	Arg	, Lys	410		Va]	. Glu	а Туг	Leu 415	
Gln	Gln	Asn	Val 420	. Ile	Pro	Pro	Phe	Cys 425		Leu	r Leu	Ser	val 430		∴Asp
Ser	Gln	Val 435		. Gln	Val	Val	Leu 440		Gly	Leu	Lys	445		. Leu	Ile
Met	Ala 450		Asp	Glu	Ala	Ser 455		Ile	Ala	Glu	Ile 460		: Glu	Glu	Cys
Gly 465	Gly	Leu	Glu	Lys	Ile 470	Glu	Val	Leu	Gln	Gln 475		Glu	. Asn	Glu	Asp 480
Ile	Tyr :	Lys	Leu	Ala 485	Phe	Glu	Ile	Ile		Gln				Gly 495	_
Asp	Ile	Asp	Glu 500	Asp	Pro	Cys	Leu	Ile 505		Glu	Ala	Thr	Gln 510	_	Gly
Thr	Tyr	Asn 515	Phe	Xaa	Pro.	Thr	Ala 520	Asn	Leu	Gln	Thr	Lys 525		Phe	Asn
Phe		٠												-	
					:	٠.				-1:				•	
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Val	Arg	Val	Gln 20	Trp	Arg	Arg	Pro	Gln 25	Val	Glu	Trp	Arg	Arg 30	Arg	Arg
Trp	Gly	Pro 35	Gly	Pro	Gly	Ala	Ser 40	Met	Ala	Gly	Ser	Glu 45	Glu	Leu	Gly
Leu.	Arg 50	Glu	Asp	Thr	Leu	Arg	Val	Leu	Ala	Ala	Phe.	Leu	Arg	Arg	Gly

Glu 65	Ala	Ala	Gly	Ser	Pro 70	Val	Pro	Thr	Pro	Pro 75	Arg	Ser	Pro	Ala	Gln 80
Glu	Glu	Pro	Thr	Asp 85	Phe	Leu	Ser	Arg	Leu 90	Arg	Arg	Cys	Leu	Pro 95	Cys
Ser	Leu	Gly	Arg 100	Gly	Ala	Ala	Pro	Ser 105	Glu	Ser	Pro	Arg	Pro 110	Cys	Ser
Leu	Pro	11e 115	Arg	Pro	Cys	Tyr	Gly 120	Leu	Glu	Pro	Gly	Pro 125	Ala	Thr	Pro
Asp	Phe 130	Tyr	Ala	Leu	Val	Ala 135	Gln	Arg	Leu	Glu	Gln 140	Leu	Val	Gln	Glu
Gln 145	Leu	Lys	Ser	Pro	Pro 150	Ser	Pro	Glu 	Leu	Gln 155	Gly	Pro	Pro	Ser	Thr 160
Glu	Lys	Glu	Ala 	Ile 165	Leu	Arg	Arg	Leu	Val 170	Ala	Leu	Leu	Glu	Glu 175	Glu
Ala	Glu	Val	Ile 180	Asn	Gln	Lys	Leu	Ala 185	Ser	Asp	Pro	Ala	Leu 190	Arg	Thr
Ser	Trp	Ser 195	Ala	Сув	Pro	Pro	Thr 200	Leu	Ser	Pro	Ala	Trp 205	Trp	Ser	Cys
Ser	Val 210	Ala	Gly	Met	Thr	Ala 215	Leu	Ala	Gln	Ala	Glu 220	His	Ala	Pro	Gly
Pro 225	Arg	Leu	Leu	Pro	Arg 230	Ser	Pro	Trp	Pro	Ala 235	Trp	Pro			
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<223> Xaa equals any of the naturally occurring L-amino acids

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Ser	Asp) Ser	Ala 20		Ala	Pro	Gly	Gly 25	Gly	Gly	Ala	Ala	Arg 30	Asp	Phe
Phe	Phe	Phe	Gln	Thr	Asp	Arg	Gly 40	Ala	Ala	Ala	Asp	Met 45	Ser	Thr	Pro
Ala	Arg 50		.Arg	: Leu	Met	Arg 55	Asp	Phe	Lys	Arg	Leu 60	Gln	Glu	Asp	Pro
Pro 65	Val	. Gly	Val	Ser	Gly 70	Ala	Pro	Ser		. Asn 75	Asn	Ile	Met	Gln	Trp 80
Asn	Ala	Val	Ile	Phe 85	Gly	Pro	Glu _.	Gly.	Thr	Pro	Phe	Glu:	Asp	Gly:	Thr
Phe	Lys	Leù	Val 100	Ile	Glu:	Phe:	Ser	Glu 105	Glu	Tyr	Pro		Lys 110	Pro:	Pro
Thr	Val	Arg 115	Phe	Leu	Ser	. Ly.s:	Met 120	Phe	His	Pro	Asn	Va1 125	Tyr	Ala	Asp
Gly	Ser 130		Cys	Leu:	Asp	Ile: 135	Leu	Gln:	Asn:	Arg	Trp 140	Ser-	Pro	Thr	Tyr
Asp 145	Val	Ser	Ser		Leu 150	Thr	Ser	Ile:	Gln	Ser 155	Leu.	Leu	Asp.:	Glu	Pro 160
Asn	Pro	Asn	Ser	Pro 165	Ala	Asn.	Ser	Gln.	Ala: 170	Ala:	Gln	Leu	_	Gln 175	Glu.
Asn	Lys	Arg	Glu 180	Tyr:	Glu.	Lys	Arg	Val 185	Ser	Ala	Ile	Val	Glu 190	Gln.	Ser
Trp	Asn	. Asp 195	Ser				•								
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Ala	Ara	Pro	Thr	Ser	Ala	Val	Pro	Ala	Glu	Pro	Ara	Pro	Phe	Ara	Pro
	,		20					25			9	;	30		
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Ser	Pro		His	Leu	Ala	Ala		Arg	Leu	Arg	Arg		Ala	Leu	Phe
		35					40					45 			
Pro	Gly	Val	Ala	Leu	Leu	Leu	Ala	Ala	Ala	Arq			Ala	Ala	Ser
	50					55					60				
											-				:
	Val	Leu	Glu	Leu		Asp	Asp	Asn	Phe		Ser	Arg	·Ile	Ser	
65					70	-				75					80
Thr	Gly	Ser	Ala	Gly	Leu	Met	Leu	Val	Glu	Phe	Phe	Ala	Pro	Trp	Cys
	_			85					90					95	•
Gly	His	Cys	Lys	Arg	Leu	Ala	Pro		Tyr	Gļu	Ala	Ala		Thr	Arg
			100					105					110	•	
Leu	Lys	Gly	Ile	Val	Pro	Leu	Ala	Lys	Val	Asp	Cys	Thr	Ala	Asn	Thr
		115					120	•			_	125			•
	m b	a	.	- .	_			_		_			_		·
ASN	130	cys	Asn	Lys	Tyr	GLY 135	Val	Ser	GLY	Tyr	Pro 140	Thr	Leu	Lys	Ile
	-50					133					140				
Phe	Arg	Asp	Gly	Glu	Glu	Ala	Gly	Ala	Tyr	Asp	Gly	Pro	Arg	Thr	Ala
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Asn	Glv	Tla	Val	Sar	ยเอ	Ten	Tve	Tve	Gln	A 1 =	Gly	Pro	Al a	50 -	1707
nsp	Cly	110	Val	165	HIIS	neu	БУЗ	пÅз	170	vra	GIY	FIU	ATA	175	Val
											-				
Pro	Leu	Arg	Thr	Glu	Glu	Glu	Phe	Lys	Lys	Phe	Ile	Ser	Asp	Lys	Asp
			180					185					190		
Ala	Ser	Ile	Val	Glv	Phe	Phe	Asn	Asn	Ser	Phe	Ser	Glu	Δla	Hic	Ser
		195		017	1		200					205		:	Der
Glu		Leu	Lys	Ala	Ala		Asn	Leu	Arg	Asp		Tyr	Arg	Phe	Ala
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His	Thr	Asn	Val	Glu	Ser	Leu	Val	Asn	Glu	Tyr	Asp	Asp	Asn	Glv	Glu
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Lys	Thr	Val	. Ala 260		Thr	Glu	Gln	Lys 265		Thr	Ser	Gly	Lys 270		Lys
Lys	Phe	11e 275		Glu	Asn	Ile	Phe 280		Ile	Cys	Pro	His 285		Thr	Glu
Asp	Asn 290		Asp	Leu	Ile	Gln 295	Gly	Lys	Asp	Leu	100 300		Ala	Tyr	Tyr
Asp 305		Asp			310					315		Tyr	Trp	Arg	Asn 320
Arg	Val			325		Lys		Phe	Leu 330		Ala	Gly	His	Lys 335	Leu
Asn	Phe	Ala	Val 340	Ala	Ser	Arg	Lys	Thr 345	Phe	Ser	His	Glu	Leu 350	Ser	Asp
Phe	Gly	Leu 355		Ser	Thr	Ala	Gly 360	Glu 	Ile	Pro	Val	Val 365	Ala	Ile	Arg
Thr	Ala 370	Lys	Gly	Glu	Lys	Phe 375		Met		Glu	Glu 380	Phe	Ser	Arg	Asp
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Lys	Arg	Туr	Leu	Lys 405	Ser	Glu	Pro	Ile	Pro 410	Glu	Ser	Asn	Asp	Gly 415	Pro
Val	Lys	Val	Val 420	Val	Ala	Glu	Asn	Phe 425	Asp	Glu	Ile	Val	Asn 430	Asn	Glu
Asn	Lys	Asp 435	Val	Leu	Ile	Glu	Phe 440	Tyr	Ala	Pro	Trp	Cys 445	Gly	His	Cys
Lys	Asn 450		Glù	Pro	Lys	Tyr 455	Lys	Glu	Leu	Gly	Glu 460	Lys	Leu	Ser	Lys
Asp 465	Pro	Asn	Ile	Val	Ile: 470	Ala	Lys	Met	Asp	Ala 475	Thr	Ala	Asn	Asp	Val 480
Pro	Ser	Pro	Tyr	485	Val	Arg	Gly		490		Ile		Phe	Ser 495	Pro
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<223> Xaa equals any of the naturally occurring L-amino acids

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Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
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Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly 50 55 60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met 65 70 75 80

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Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu 100 105 110

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Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
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   5 10
Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
                          25
Lys Ile Val
      35
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<210> 873 <211> 420

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<21	3> н	omo	sapi	ens											
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Val 1		Leu	Gln	Leu 5		Gln	Ser	Thr	Val		Cys	Pro	Leu	Gly 15	_
Leu	Ala	Ser	Thr 20	Ala	Thr	Asn	Asp	Cys 2.5		Cys	Thr	Thr	Thr 30		Су
Leu	Pro	Asp 35		Val	Cys	Val	His 40		Ser		Ile	туr 45		Val	Gly
Gln	Phe 50	Trp	Glu	Glu	Gly	Cys - 55			Cys		Cys 60	Thr	-	Met	Glı
Asp 65	Ala	Val	Met	Gly	Leu 70	Arg	Val	Ala	Gln	Cys 75		Gln	Lys	Pro	Су: 8(
Glu	Asp	Ser	Cys	Arg 85	Ser	Gly	Phe	Thr	Туг 90		Leu	His	Glu	Gly 95	
Cys	Cys	Gly	Arg 100	Cys	Leu	Pro	Ser	Ala 105	Cys	Glu	Val	Val	Thr 110	Gly	Ser
Pro	Arg	Gly 115	Asp	Ser	Gln	Ser	Ser 120	Trp	Lys 	Ser	Val	Gly 125		Gln	Trp
Ala	Ser 130	Pro	Glu	Asn	Pro	Cys 135	Leu	Ile	Asn	Glu	Cys 140	Val	Arg	Val	Lys
Glu 145	Glu	Val	Phe	Ile	Gln 150	Gln	Arg	Asn	Val	Ser 155	Cys	Pro	Gln	Leu	Glu 160
Val	Pro	Val	Cys	Pro 165	Ser	Gly	Phe	Gln	Leu 170	Ser	Cys	Lys	Thr	Ser 175	Ala
Cys	Cys	Pro	Ser 180	Cys	Arg	Cys	Glu	Arg 185	Met	Glu	Ala	Cys	Met 190	Leu	Asņ
3ly	Thr	Val 195	Ile	Gly	Pro	Gly	Lys 200	Thr	Val	Met	Ile	Asp 205	Val	Cys	Thr
Phr	Cys 210	Arg	Суѕ	Met	Val	Gln 215	Val	Gly	Val	Ile	Ser 220	Gly	Phe	Lys	Leu
31u 225	Cys	Arg	Lys	Thr	Thr 230	Cys	Asn	Pro	Cys	Pro 235	Leu	Gly	Tyr	Lys	Glu 240
Slu	Asn	Asn	Thr	Gly 245	Glu	Cys	Cys	Gly	Arg 250	Cys	Leu	Pro	Thr	Ala 255	Cys

Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu 260 . 265 Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg 280 Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp 295 300 Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly 310 315 Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala 325 Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val 345 Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser 355 360 365 Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr 375 Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val 385 390 395 Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg 405 410 Lys Cys Ser Lys 420 <210> 874 <211> 151 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (90) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (103) <223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids
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Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Glñ
                           40
Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
     50
                       55
Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
                    70
Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Glý Met Ala Asn Gly Asp
           85
                                  90
Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
                          120
Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
   130
                      135
Ser Lys Ser Val Gly Ser Leu
145
<210> 875
<211> 95
<212> PRT
<213> Homo sapiens
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Ala Leu Asn Leu Asn Ser Gln Leu Asn'lle Pro Lys Asp Thr Ser Gln
                                      15
                          10
Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
                              25 30
```

Arg Leu Cys Leu Ser Thr Asp Ala Ala Pro Gln Thr Met Val Met

35 40 45 Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser 55 60 50 Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr 75 . . Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu 85 90 <210> 876 <211> 238 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (7) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (15) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe 10 Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr 25 Ser Leu Leu Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala 35 40

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe

60

Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly

65					70					75	•				80
Leu	Arg	Asn	Lys	Arg 85		Val	Trp	Arg	Val 90		Phe	Thr	Leu	Ala 95	_
Ile	Arg	Lys	Ala 100	Ala	Arg	Glu	Leu	Leu 105	Thr	Leu	Asp	Glu	Lys		Pro
Arg	Arg	Leu 115	Phe	Glu	Gly	Asn	Ala 120	Leu	Leu	Arg	Arg	Leu 125		Arg	Ile
Gly	Val 130	Leu	Asp	Glu	Gly	Lys	Met	Lys	Leu		Tyr 140		Leu	Gly	Leu
Lys 145	Ile	Glu	Asp	Phe	Leu 150	Glu	Arg	Arg	Leu	Gln 155	Thr	Gln	Val	Phe	Lys 160
Leu	Gly	Leu	Ala	Lys 165	Ser	Ile	His	His	Ala 170		Val	Leu	Ile 	Arg 175	
Arg	His	Ile	Arg 180			Lys	Gln	Val 185	Val	Asn	Ile	Pro	Ser 190	Phe	Ile
Val	Arg	Leu 195	Asp	Ser	Gln	Lys	His 200	Ile	Asp 	Phe 	Ser	Leu 205	Arg	Ser	Pro
	Gly 210	Gly		Arg	Pro	Gly 215	Arg	Val	Lys	Arg	Lys 220	Asn	Ala	Lys	Lys
Gly 225	Gln	Gly	Gly	Ala	Gly 230	Ala	Gly	Asp	Asp	Glu 23 _. 5	Glu	Glu	Asp		
<211 <212)> 87 .> 79 !> PR !> Ho	, T	apie	ens											
	> 87 Gly		Arg	His 5	Glu	Pro	Ser	Ala	Ala 10	Ala	Met	Ser	Ser	Gly 15	Ala
Ser	Ala	Ser	Ala	Leu	Gln	Arg	Leu	Val	Glu	Gln	Leu	Lys	Leu	Glu	Ala

Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln

Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro

50 55 60 Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu 70 75 <210> 878 <211> 136 <212> PRT <213> Homo sapiens <400> 878 Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His 25 Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala 35 40 45 Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp 65 70 75 80 Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg 85 90 His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu 105 110 Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val 120 125 Gly Ala Gly Lys Lys Pro Lys Glu 130 135 <210> 879 <211> 141 <212> PRT <213> Homo sapiens <400> 879 Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala

10

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Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
           20
                         25
 Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
                         40
 Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
     50 55 60
 Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lýŝ Ala Leu Ala Asn
        70
                                75
Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
                               90 .
                                     . ·
Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
                            105 . 110
Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
       115 120 125
Glu Glu Ser Asp Asp Met Gly Phe Gly Leu Phe Asp
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                                   10
Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
           25
Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
                            40
Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
                85
Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
           100
                    105 110
Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
                    120
Leu Xaa Xaa Cys Pro
    130
<210> 881
<211> 260
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<213> Homo sapiens
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<220>
<221> SITE
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<220>
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				s an	y of	the	nat	ural	ily d	occui	cring	L-a	amino	aci	lds
<22 <22	0> 1> s	ITE													
		171) aa e		s an	y of	the	nat	ural	.ly c	ccur	ring	L-a	mino	aci	.ds
	0>_8		•												
Ile 1	Glu	Glu	Pro	Arg 5		Thr	Arg		Gln - 10		. Cys	Ser	· Xaa	Val 15	
Ile	Trp	Cys	Leu 20		Lys	Phe	Lys	Met 25		Lys	His	Arg	His 30	Leu	Pr
Leu	Val	Ala 35	Val	Phe	Cys	Leu	Phe 40	Leu	Ser	Gly	Phe	Pro 45		Thr	Hi:
Ala	Gln 50	Gln	- Gln	Gln	Ala	'Val	Ile	Glu	Val	Asn	Lys 60	Arg	Asp	Ile	Va.
Phe 65	Leu	Val	Asp	Gly	Ser 70	Ser	Ala	Leu	Gly	Leu 75	Ala	Äsn	Phe	Asn	Ala 80
Ile	Arg	Asp	Phe	Ile 85	Ala	Lys	Và1	Ile	Gln 90	Arg	- Leu	Glu	Ile	Gly 95	Glr
Asp	Leu	Ile	Gln 100	Val	Ala	Val	Ala	Gln 105	Týr	Ala	Asp	Thr	Val 110	Arg.	Pro
Glu	Phe	Tyr 115	Phe	Asn	Thr	His	Pro 120	Thr	Lys	Arg	Xaa'	Val 125	Ile	Thr	Ala
Val	Arg 130	Lys	Met	Lys	Pro	Leu 135	Xaa	Gly	Ser		Leu 140	Tyr	Thr	Gly	Ser
Ala 145	Leu	Asp	Phe		Arg 150	Asn	Asn	Leu	Phe	Thr 155	Ser	Ser	Ala	Gly	Туг 160
Arg	Ala	Ala	Glu	Gly 165	Ile	Pro	Lys		Leu 170	Xaa	Leu	Ile	Thr	Gly 175	Gly
Lys	Ser	Leu	Asp 180	Glu	Ile	Ser	Gln	Pro 185	Ala	Gln	Glu	Leu	Lys 190	Arg	Ser
Ser	Ile	Met 195	Ala	Phe	Ala	Ile	Gly 200	Asn	Lys	Gly	Ala	Asp 205	Gln	Ala	Glu
	Glu	Glu	Ile	Ala		Asp	Ser	Ser	Leu	Val	Phe	Ile	Pro	Ala	Glu

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Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
                                         235
Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
                                     250
Ile Ile Phe Leu
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<213> Homo sapiens
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Xaa	Xaa	Glu	Ser	Glu	Xaa	Ser	Phe	Xaa	Cys	Arg	Lys	Xaa	Ile	Ile	Xaa
1				5				-	10		_	• .		15	
Phe	Leu	Xaa			Arg	Val	Val	Phe	Leu	Lys	Gln	Leu	Ala	Ser	Gly
			20	~				25					30		
	_	_	_												
Leu	Leu		Val					Val	Leu	Asn	Arg			Leu	Arg
		35			•		40					45			
2-0	Th-	uia	- ·	T	Dh.a	17- 1	-1 -					_			
AIG	50	nis	GIN	rys	Pne	Va 1		Ala	Thr	Ser	,	Lys	Ile	Asp	Ile
	50		•			33					60				
Ser	Asn	Va l	T.ve	בוז	Pro	Luc	Hic	T OU	mb-	Asp	, ,	m	Dha	T	•
65			_,,		.70	<u>п</u> у 5	1113	Leu	1111	75	MIA	TYL	Pne	гÀг	_
0.5					, ,			•		/ 3					80
Lvs	Lvs	Leu	Ara	Lvs	Pro	Ara	His	Gln	Glu	Gly	Glu	710	Dha	λου	mh-
•			5	85						OL,	GIU	116	FIIC	95	1111
									30	_				,,	
Glu	Lys	Glu	Lys	Tyr	Glu	Ile	Thr	Glu	Gln	Arg	Lvs	Tle	Asn	Gln	T.ve
			100	•				105		5	-1-		110		-7.5
									, •						
Ala	Val	Asp	Ser	Gln	Ile	Leu	Pro	Lys	Ile	Lys	Ala	Ile	Pro	Gln	Leu
		115			٠.			_		•	٠,	125			
Gln	Gly	Tyr	Leu	Arg	Ser	Val	Phe	Ala	Leu	Thr	Asn	Gly	Ile	Tyr	Pro
	130		•			135		·		•	140				
												-			
	Lys	Leu	Val	Phe		•									
145		•			-			•				-		-	
-310											•				
<210			*		•										
<211 <212															
		mo s	2010												
~213	- no	ino s	apre	1115									,		
<400	> 88	3													
			Val	Val	Va 1	T.eu	Ala	Val	Ser	בומ	G1 v	21-	G) v	cor	Ala
1	-, -			. 5		J- u	nia	var	10	AIG	GIY	AIA	GLY		MIG
-					_				10					15	
His 1	Pro	Ara	Gln	Asn	Lvs	Tvr	Ser	Val	ī.eu	Leu	Pro	Thr	ጥተታም	Δen	Glu
		5	20		_, _	-] -		25	204		110	1111	30	VƏII	GIU
													30		
Arg (Glu .	Asn	Leu	Pro :	Leu	Ile	Val '	Tro	Leu	Leu	Va1	Lve	Ser	Phe	Ser
-		35	_		'	-	40					45			
							-								
Glu S	Ser (Gly	Ile.	Asn '	Tyr (Glu	Ile	Ile	Ile	Ile .	Asp .	Asp	Gly	Ser	Pro
	50					55					60	-	-		

Asp 65		Thr	Arg	Asp	Val 70		Glu	Gln	Leu	Glu 75	Lys	Ile	Tyr	Gly	Ser 80
Asp	Arg	Ile	Leu	Leu 85		Pro	Arg	Glu	Lys 90	Lys	Leu	Ģly	Leu	Gly 95	
Ala	Tyr	Ile	His 100	Gly	Met	Lys	His	Ala 105	Thr	Gly	Asn	Tyr	Ile 110	Ile	Ile
Met	Asp	Ala 115		Leu	Ser	His	His 120	Pro	Lys	Phe	Ile	Pro 125	Glu	Phe	Ile
Arg	Lys 130	Gln	Lys	Glu	Gly	Asn 135	Phe	Asp	Ile	Val	Ser 140	Gly	Thr	Arg	Tyr
Lys 145		Asn	Gly		Val 150	Tyr	Gly	Trp	Asp	Leu 1,55	Lys	Arg	Lys	Ile	Ile 160
Ser	Arg	Gly	Ala	Asn 165	Phe	Leu	Thr	Gln	Ile 170	Leu	Leu	Arg	Pro	Gly 175	Ala
Ser	Asp	Leu	Thr 180	Gly	Ser	Phe	Arg	Leu 185	Tyr	Arg	Lys	Glu	Val 190	Leu	Glu
Lys	Leu	11e 195	Glu	Lys	Cys	Val	Ser 200	Lys	Gly	Tyr	Val	Phe 205	Gln	Met	Glu
Met	Ile 210	Val	Arg	Ala	Arg	Gln 215	Leu	Asn	Tyr	Thr	Ile 220	Gly	Glu	Val	Pro
Ile 225	Ser	Phe	Val	Asp	Arg 230	Val	Tyr	Gly	Glu	Ser 235	Lys	Leu	Gly	Gly	Asn 240
Glu	Ile	Val		Phe 245	Leu	Lys	Gly	Leu	Leu 250	Thr	Leu	Phe	Ala	Thr 255	Thr

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<211> 449

<212> PRT

<213> Homo sapiens

<400> 884

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Ala	Lys	Gly	Asp 20		g Gly	Glu	ı Thr	Gl ₃		Ala	a Gly	Pro) Pro 30		/ Ala
Pro	Gly	Ala 35		Gly	Ala	Pro	Gly 40		Val	L Gly	Pro	Ala 45		, Lys	S Ser
Gly	Asp 50		Gly	Glu	Thr	Gly 55	Pro	Ala	Gly	Pro	Ala 60	_	Pro	Val	Gly
Pro 65		Gly	. Ala	Arg	Gly 70		Ala	Gly	Pro	75		Pro	Arg	Gly	Asp 80
Lys	Gly	Glu	Thr	Gly 85		Gln	Gly	Asp	Arg 90		Ile	Lys	Gly	His	-
Gly	Phe	Ser	Gly 100	Leu	Gln	Gly	Pro	Pro 105		Pro	Pro	Gly	Ser 110		Gly
Glu	Gln	Gly 115	Pro	Ser	Gly	Ala	Ser 120				Gly			Gly	Pro
Pro	Gly 130		Ala	Gly		Pro 135	Gly	Lys	Asp		Leu 140		Gly	Leu	Pro
145		٠,		-	150		Pro		-	155	-				160
	•			165.	:		Pro	-	. 17.0.					175	
Pro	Ser	Ala	Gly 180	Phe	Asp	Phe	Ser	Phe 185		Pro	Gln	Pro	Pro 190	Gln	Glu
		195				•	Tyr 200	. :	-			205	-		-
	210					215	Val				220	-			
225					230.		Ser	-		23.5.	***				240
	-			245			Lys		250	•		٠.		255	
			260	•				265			٠	- ' ,	2,70_		
Lys	Val	Phe 275	Cys	Asn	Met	Glu	Thr 280	Gly	Glu	Thr	Cys	Val 285	Tyr	Pro	Thr

290 295 Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln 310 315 Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln 325 330 Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr 345 Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn 360 365 Leu Lys Lys Ala Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg 370 375 380 Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys 390 395 Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr 410 Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val 420 425 Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe . 440 Leu <210> 885 <211> 64 <212> PRT <213> Homo sapiens <400> 885 Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp

10

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser

40

5

35

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys

BNSDOCID: <WO__0055350A1_I_>

60

50

<210> 886 <211> 132

<212> PRT

<213> Homo sapiens

Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
1 10 15

55

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
20 25 30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
35 40 45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
50 55 60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
65 70 75 80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala 85 90 95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
100 105 110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu 115 120 125

Lys Asn Val Asn 130

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<211> 70

<212> PRT

<213> Homo sapiens

<400> 887

Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
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Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val 20 25 30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu 35 40 45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn 50 55 60

Cys Arg Thr Trp Pro His 65 70

<210> 888

<211> 373

<212> PRT

<213> Homo sapiens

<400> 888

Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu 1 5 10 15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser 20 25 30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Glu Glu Tyr 35 40 45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser 50 55 60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys 65 70 75 . 80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu 85 90 95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu 100 105 110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr 115 120 125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln 130 135 140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp 145 150 155 . 160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile

												•			
				165	,				170)				175	5
Arg	Asp) Ile	180	Arg	Val	Туг	Arg	Glu 185		. Leu	Lys	Arç	190		a Ala
Lys	Asp	11e		Ser	Asp	Thr	Ser 200		Asp	Phe	Arg	Asn 205		Leu	Leu
Ser	Leu 210		Lys	Gly	Asp	Arg 215	Ser	Glu	Asp	Phe	Gly 220	Va l	Asn	Glu	Asp
Leu 225	Aļa	Asp	Ser	Asp	Ala 230	Arg	Ala	Leu	Tyr	Glu 235	Ala	Gly	Glu	Arg	Arg 240
Lys	Gly	Thr	Asp	Val 245	Asn	Val	Phe	Asn	Thr 250	Ile	Leu	Thṛ	Thr	Arg 255	Ser
Tyr	Pro	Gln	Leu 260	Arg	Arg	V ạl	Phe	Gln 265	Lys	Tyr	Thr	Lys	Tyr 270	Ser	Lys
His	Asp	Met 275	Asn	Lys	Val	Leu	Asp 280	Leu	Glu	Leu	Lys	Gly. 285	Asp	Ile	Glu
Lys	Cys 290	Leu	Thr	Ala	Ile	Val 295	Ļys	Cys	Ala	Thr 	Ser 300	Lys	Pro	Ala	Phe
Phe 305	Ala	Glu	Lys	Leu	His 310	Gln	Ala	Met	Lys	Gly 315	Val	Gly	Thr	Arg	His 320
Lys	Ala	Leų	Ile	Arg 325	Ile	Met	Val	Ser	Arg 330	Ser	Glu	Iļe	Asp	Met. 335	•
Asp	Ile	Lys	Ala 340	Phe	Tyr	Gln	Lys	Met 345	Туг	Gly	Ile	Ser	Leu 350	Cys	Gln
Ala	Ile	Leu 355	Asp	Glu	ŢŅŗ	Lys	Gly 360	Asp	Tyr	Glu	Lys	11e 365	Leu	Val	Ala
Leu	Cys 370	Gly	Gly	Asn							·		-		
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<211 <212 <213	> 33 > PR	6 T	anic	ne									·		
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Gly Arg Lys Lys His Leu Xaa Ala Arg Leu Val Thr Glu Met Asp Ser
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Lys Tyr Gln Cys Val Lys Leu Asn Asp Gly His Phe Met Pro Val Leu
Gly Phe Gly Thr Tyr Ala Pro Ala Glu Val Pro Lys Ser Lys Ala Leu
         35
Glu Ala Xaa Lys Leu Ala Ile Glu Ala Gly Phe Xaa His Ile Asp Ser
Ala His Xaa Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser
 65
                     70
                                          75
Lys Ile Ala Asp'Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser
                 85
Lys Leu Trp Xaa Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu
                                105
Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu
        115
                            120
                                                125
```

Il∈	130		Pro	Val	. Ser	Val		Pro	Gl;	7 Glu	140		l Ile	e Pro) Lys
Asp 145	Glu	Asn	Gly	' Lys	11e		Phe	Asp	Thr	7 Val		Lėu	Cys	Ala	Thr 160
Trp	Glu	Ala	Val	. Glu 165		Cys	Lys	Asp	170	Gly	Leu	Ala	Lys	Ser 175	
Gly	Val	Ser	Asn 180		Asn	Xaa	Arg	Gln 185		Glu	Met	Ile	Leu 190		Lys
Pro	Gly	Leu 195	Lys	Tyr	Lys	Pro	Val 200	Cys	Asn	Gln	Val	Glu 205		His	Pro
Tyr	Phe 210	Asn	Gln	Arg	Lys	Leu 215	Leu	Asp	Phe	Cys	Lys 220	Ser	Lys	Asp	Ile
Val 225	Leu	Val	Ala	Tyr	Ser 230	Ala	Leu	Gly	Ser	His 235	Arg	Glu	Glu	Pro	Trp 240
Val	Asp	Pro	Asn	Ser 245	Pro	Val	Leu	Leu	Glu 250	Asp	Pro	Val	Leu	Cys 255	Ala
Leu	Ala	Lys	Lys 260	His	Lys	Arg	Thr	Pro 265	Ala	Leu	Ile	Ala	Leu 270	Arg	Tyr
Gln	Leu	Gln 275	Arg	Gly	Val	Val	Val 280	Leu	Ala	Lys	Ser	Tyr 285	Asn	Glu	Gln
Arg	Ile 290	Arg	Gln	Asn	Val	Gln 295	Val	Phe	Glu	Phe	Gln 300	Leu	Thr	Ser	Glu
Glu 305	Met	Lys	Ala	Ile	Asp 310	Gly	Leu	Asn	Arg	Asn 315	Val	Arg	туг	Leu	Thr 320
Leu	Asp	Ile	Phe	Ala 325	Gly	Pro	Pro	Asn	Tyr 330	Pro	Phe	Ser	Asp	Glu	

<210> 890

<211> 195

<212> PRT

<213> Homo sapiens

<400> 890

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Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
                    70
                                        75
Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
                85
                                   90
Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
                   . 120
Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
                       135
Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
                   150
                                      155
Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
               165
                                 170
His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
                               185
Ala Lys Glu
       195
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Leu Ile Leu Ser Thr Lys 195

<210> 892

<211> 95

<212> PRT

<213> Homo sapiens

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<400> 892
 Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
 Pro His Arg Arg His Thr Ala Ala Ser Val Met Pro Lys His Glu
 Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
                             40 .
Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
                         55
Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
                                         75
Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
               85
<210> 893
<211> 123
<212> PRT
<213> Homo sapiens
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Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
                 5
                                    10
Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
            20
Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
                            40
Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
    50
```

Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

65	5				70	•				7 :	5				80
Leu	ı Ile	e Va	l Ile	e Pro		. Arg	y Val	l His	5 Phe		e Phe	e Met	t Lei	Phe 95	
Pro	Су:	s Il	e Asr 100		His	Leu	Thr	Lys 105		e Thi	Glr	ı Leı	1 Ile		Lys
Lys	Lys	11!	s Asn	хаа	Gly	Gly	Gly 120		Gly	Thr	· ···		4	ř. A	
		٠.			-			٠.							•
<21 <21	2> £	.72 PR T	sapi	ens		-		-	ż	.:	ü	÷.			: "
-	0> 8	•	Supi		٠	٠		;	•. •	. :	- :		-		• • •
	Phe		. Tyr	Cys 5		Lys		Ala			Asn	Ile	Gly	Asn 15	Val
Leu	Pro	Val	. Gly 20				Glu			Ile	Val	Cys	Cys 30	Leu	Glu
Glu	Lys	Pro 35	Gly	Asp	Arg	Gly		Leu				Ser 45	Gly	Asn	туг
Ala	Thr 50		Ile	Ser	His	Asn 55	Pro	Glu	Thr	Lys	Lys 60	Thr	Arg	Val	Lys
Leu 65	Pro	Ser	Gly	Ser	Lys 70	Lys		Ile	Ser	Ser 75	Ala	Asn	Arg	Ala	Val 80
Val	Gly	Val	Val	Ala 85	Gly		Gly	Arg	Ile 90	Asp	Lys	Pro	Ile		Lys
Ala	Gly	Arg	Ala 100	Tyr	His	Lys	Tyr	Lys 105	Ala	Lys	Arg	Asn	Cys 110	Trp	Pro
Arg	Val	Arg 115	Gly	Val	Ala 	Met	Asn 120	Pro	Val	Glu	His	Pro 125	Phe	Gly	Gly
Gly	Asn 130	His	Gln	His 				Pro						Asp	Ala
Pro 145	Ala	Gly	Arg	Lys	Val 150	Gly	Leu	Ile	Ala	Ala 155	Arg -	Arg	Thr	Gly	Arg 160
Leu	Arg	Gly	Thr		Thr						Asn 		ı:		

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<210> 895
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Asn Arg Glu Gly Ser Lys Gly Val Glu Thr Arg Arg Val Leu Val Gly
Glu Gln Gln Cys Xaa Asp Ala Lys Ser Gln Gln Lys Glu Gln Met
Leu Leu Clu Xaa Lys Ser Ala Ala Tyr Ser Gln Val Leu Leu Arg
Cys Leu Thr Leu Leu Gln Arg Leu Leu Gln Glu His Arg Leu Lys Thr
                        55
Gln Ser Glu Leu Asp Arg Ile Asn Ala Gln Tyr Leu Glu Val Lys Cys
Gly Ala Met Ile Leu Lys Leu Arg Met Glu Glu Leu Lys Ile Leu Ser
                 85
Asp Thr Tyr Thr Val Glu Lys Val Glu Val His Arg Leu Ile Arg Asp
                                105
Arg Leu Glu Gly Ala Ile His Leu Gln Glu Gln Asp Met Glu Asn Ser
                            120
Arg Gln Val Leu Asn Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
   130
Leu Val Lys Glu Tyr Thr Val Leu Lys Gln Ala Thr Glu Asn Lys Arg
Trp Ala Leu Gln Glu Phe Ser Lys Val Tyr Arg
               165
                                    170
```

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<210> 896 ...
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<213> Homo sapiens :
Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
          20 . 25
Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
                       40 45
Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
                     55
Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
             85
                              90
Asp His Ser
<210> 897
<211> 289
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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    لسيوعين الأراث المراجعين الماكات المعالم
<400> 897
Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1 10 1 15
Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
               20
Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
          40 45
```

Asp	His 50		Thr	Pro	Pro	Ser 55		туг	Gly	Ser	Val 60		Ala	Tyr	Th:
Asn 65	Phe	Asp	Ala	Glu	Arg 70	Asp	Ala	Leu	Asn	Ile 75		Thr	Ala	Ile	E Ly:
Thr	Lys	Gly	Val	Asp 85	Glu	Val	Thr	Ile	Val 90		Ile	Leu	Thr	Asn 95	
Ser	Asn		Gln 100	Arg	Gln	Asp	Ile	Ala 105		Ala	Tyr	Gln	Arg 110	-	Thi
Lys	Lys	Glu 115	Leu	Ala	Ser	Ala	Leu 120		Ser	Ala	Leu	Ser 125	_	His	Leu
Glu	Thr 130	Val	Ile	Leu	Gly	Leu 135	Leu	Lys	Thr	Pro	Ala 140	Gln	Tyr	Asp	Ala
Ser 145	Glu	Leu	Lys	Ala	Ser 150	Met	Lys	Gly	Leu	Gly 155	Thr	Asp	Glu	Asp	Ser 160
Leu	Ile	Glu	Ile	Ile 165	Cys	Ser	Arg ·	Thr	Asn 170	Gln	Glu	Leu	Gln	Glu 175	Ile
Asn	Arg	Val	Туг 180	Lys	Glu	Met	Tyr	Lys 185	Thr	Asp	Leu	Glu	Lys 190	Asp	Ile
Ile	Ser	Asp 195	Thr	Ser	Gly	Asp	Phe 200	Arg	Lys	Leu	Met	Val 205		Leu	Ala
Lys	Gly 210	Arg	Arg	Ala	Glu	Asp 215	Gly	Ser	Val	Ile	Asp 220	Tyr	Glu	Leu	Ile
Asp 225	Gln	Asp	Ala	Arg	Asp 230	Leu	Туr	Asp	Ala	Gly 235	Val	Lys	Arg	Lys	Gly 240
Thr	Asp	Val	Pro	Lys 245	Trp	Ile	Ser	Ile	Met 250	Thr	Glu	Arg	Ser	Xaa 255	Pro
Thr	Ser	Arg	Lys 260	Tyr	Leu	Ile	Gly	Thr 265	Arg	Val	Thr	Ala	Leu 270	Met	Thr
Cys	Trp	Lys 275	Ala	Ser	Gly	Lys	Arg 280	Leu	Lys	Glu	Thr	Trp 285	Lys	Met	Leu

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Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
                                 25.
Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
         35
Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
                     70
                                        75.
Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
                              105
Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
        115
                            120
Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Asp
                        135
Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
                   150
                                       155
Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
                165
Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
                               185
Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
        195
                            200
                                                2.05
Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr
```

210 215 220 Ser Cys Arg Pro Asp Met Ser Thr 230 <210> 899 <211> 218 <212> PRT <213> Homo sapiens <400> 899 Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val 25 Thr Val Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys 70 · His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val 85 90 Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe 105 His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe 115 Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val 150 Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro 165 170 Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Gln Arg Lys Glu Lys Thr

185

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro

200

Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly

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<21	3> H	omo	sapi	ens		:					٠,				
<40	n> 9	00													
Ser	Lys	Arq	Gly	His	Val	Pro	Tro	Glv	Leu	Glu	Glu	Tle	Len	Asp	Val
1	_	-	-	5			- &		10					15	
			·							٠.,					
Ile	Glu	Pro	Ser		Phe	Val	Lys		Gln	Glu	Pro.	Leu		Lys	Gln
			20					25			;		30		
Ile	Ala	Lys	Cys									-		Ara	Ala
		35					40					45		5	
				-				-	• ,				•		٠.
Leu	Tyr 50		Trp	Asn	Asn		Tyr	Ile	Met	Ser		Ile	Glu	Glu	Asn
		,		٠.,		55					60				
Ser	Asn	Val	Ile	Leu	Pro	Ile	Met	Phe	Ser	Ser	Leu	Tyr	Arq	Ile	Ser
65					70					75		•	Ī		80
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rys	GIU	HIS	Trp	Asn 85	Pro	Ala	Ile	Val	Ala 90	Leu	Val	Tyr	Asn		Leu
				03					30					95	
Lys	Ala	Phe	Met	Glu	Met	Asn	Ser	Thr	Met	Phe	Asp	Glu	Leu	Thr	Ala
		: •	100					105					110		
Ωh			C		•	a 1 -	•	a 1 .	_	_	_				
1111	TYL		Ser		Arg	GIN	120	GIU	ràs	ràs	ьуs	125	Lys	Glu	Arg
							120					123			
Glu	Glu	Leu	Trp	Lys	Lys	Leu	Glu	Asp	Leu	Glu	Leu	Lys	Arg	Gly	Leu
	130				•	135		• •			1 4.0				•. •
Ara	Ara	Acn	Gly	Tla	T 7 0	Dro	mb								
145	Arg	лэр	GIY		150		1111								
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<210 <211															
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O+3	₽£ ſî	Arg	Glu	тте	SEL	стĀ	AT G	ren	WTG	GIU	Met	PTO	чта	ASP	ser

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Gly	Tyr	Pro	Ala 20		Leu	Gly	Ala	Arg 25		Ala	Ser	Phe	Tyr 30		Arg
Ala	Gly	Arg	Val	Lys	Cys	Leu	Gly 40		Pro	Glu	Arg	Glu 45	_	Ser	Val
Ser	Ile 50		Gly	Ala	Val	Ser 55		Pro	Gly	Gly	Asp 60		Ser	Asp	Pro
Val 65	Thr	Ser	Ala	Thr	Leu 70	Gly	Ile	Val	Gln	Val 75		Trp	Gly	Leu	Asp 80
Lys	Lys	Leu	Ala	Gln 85	Arg	Lys	His	Phe	Pro 90	Ser	Val	Asn	Trp	Leu 95	Ile
Ser	туr	Ser	Lys 100	Tyr	Met	Arg	Ala	Leu 105	Asp	Glu	Tyr	Tyr	Asp 110	Lys	His
Phe	Thr	Glu 115	Phe	Val	Pro	Leu	Arg 120	Thr	Lys	Ala	Lys	Glu 125	Ile	Leu	Gln
Glu	Glu 130	Glu	Asp	Leu	Ala	Glu 135	Ile	Val	Gln	Leu	Val 140	Gly	Lys	Ala	Ser
Leu 145	Ala	Glu	Thr	Asp	Lys 150	Ile	Thr	Leu	Glu	Val 155	Ala	Lys	Leu	Ile	Lys 160
Asp	Asp	Phe	Leu	Gln 165	Gln	Asn	Gly	Tyr	Thr 170	Pro	Tyr	Asp	Arg	Phe 175	_
Pro	Phe	Туг	Lys 180	Thr	Val	Gly	Met	Leu 185	Ser	Asn	Met -	Ile	Ala 190	Phe	Tyr
Asp	Met	Ala 195	Arg	Arg	Val	Phe	Glu 200	Thr	Thr	Ala	Gln	Ser 205	Asp	Asn	Lys
Ile	Thr 210	Trp	Ser	Ile	Ile	Arg 215	Glu	His	Met	Gly	Asp 220	Ile	Leu	Tyr	Lys
Leu 225	Ser	Ser	Met	Lys	Phe 230	Lys	Asp	Pro	Leu	Lys 235	Asp	Gly	Glu	Ala	Lys 240
Ile	Lys	Ser	Asp	Tyr 245	Ala	Gln	Leu	Leu	Glu 250	Asp	Met	Gln	Asn	Ala 255	Phe
Arg	Ser	Leu	Glu 260	Asp											

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	2> P														
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<22	0>														
	1> s	ITE													
<22	2> (33)										-			
<22	3> X	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
	0> 9					: .									
Phe	Pro	Gly				Arg	Pro	Arg	Gly				Ser	Gly	Gly
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		Val			Val										Ala
	-		20					-25	•				30		
Yaa	Glv	Tue	G1 _W	Gln.	Glu	W = 1	C1	mb =	C 0 ==	*** 7	m b			•	Leu
naa		35	GLY	G111		vai			ser		THE		Tyr	Arg	Leu
	• .	,,,			-		40		•			45	•		
Glu	Glu	Val	Ala	Lvs	Arq	Asn	Ser	Leu	Lvs	Glu	Leu	Tro	T.eu	Val	Ile
	50														4
His	Gly	Arg	Val	Tyr	Asp	Val	Thr	Arg	Phe	Leu	Asn	Glu	His	Pro	Glv
65	•				70										80
Gly	Glu	Glu	Val	Leu									Ser	Glu	Ser
	-			85				٠.	90	•:				95	
			_		٠										
	Glu	Asp			His	Ser	Ser		Ala	Arg	Glu	Met	Leu	Lys	Gln
			100					105					110		
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TYL	ıyı	115	GIY	ASP	TIE	urs	120	ser	ASP	Leu	rys	125	Glu	ser	GIÀ
							120					123			
Ser	Lvs	Asp	Pro	Ser	Lvs	Asn	Asp	Thr	Cvs	Lvs	Ser	Cvs	Trp	Ala	ጥህም
	130	•				135			-1-	-10	140	-,-			-1-
Trp	Ile	Leu	Pro	Ile	Ile	Gly	Ala	Val	Leu	Leu	Gly	Phe	Leu	Tyr	Arg
145					150					155					160
Tyr	Ty.r.	Thr	Ser		Ser	Lys	Ser	Ser			•		٠	•	
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<210	, an	17						-							
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<212										•	- •	ż			
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<220>
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Pro Leu Cys Leu Ala Lys Asn Lys Asn Phe Leu Ile Leu Arg Xaa Asn
Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
             20
                                 25
Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
                             40
                                                  45
Val Val Leu Trp Ser
     50
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<211> 329
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Arg Arg Xaa Ala Xaa Pro Arg Val Arg Trp Lys Ile Cys Gly Leu Ser
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Pro Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn
```

			20)				2	5		٠		3)	
		35			Gly		/ Arc		y Ala	a Ile	e Glı		_	L Thi	Glr
Tyr	Gln 50	His	s Ser			Gln 55								Ile	e Ala
Arg 65	Asn	Trp	Ala	Asp	Ala 70	Gln	Thr	Glr	ı Ile	Glr - 75	n Asr	ı Ile	e Ala	Ala	Ser 80
Phe	Asp	Gln													Tyr
			100		: **	-	. ·	. 105	,	: ~:	. : :	j 7	.: 110	ş	Arg
*		115		-	-		120	'		-	٠	. 125	ie Like 1		Asp
	130					135				-	140		. :	:	Phe
145					150		· .			155					Ser 160
				165			-	:	. 170	- 1.:				175	Leu
		-	180		-	,		185					190		Phe
		195					200					205			Ala
	210					215					220			•	His
225				÷	230					235					Pro 240
				245		. :			250		٠		• ::	255	Ala
		•	260				٠.	265	-				270		Thr
		275					280			×		285			Pro Ala
							- y -			- $ y$	9111		OCI	OTA.	ALA

290 295 300 Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu 305 310 Lys Lys Leu Ala Val Ser Ser Ala Ala 325 <210> 905 <211> 264 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (48) <223> Xaa equals any of the naturally occurring L-amino acids <400> 905 Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe 5 Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu 20 Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa 40 Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg 50 55 Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu `85 90 Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile 120 Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala

Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly

155

150

```
Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
                                 170
His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
                              185 . .
Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
    210 . .
                     215
Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
                  230
                                     235
Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Asp Tyr
           245
                                250
                                                    255
Leu Lys Lys Pro Gly Gly Gly
    . 260
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Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
- 1 25 m - - 20 m - 30, m - 25 m - - - - 1 25 m
Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser
```

35 40 Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro 55 Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Pro Pro Ser Ala Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln 90 Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln 130 135 Pro Ala Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu 150 155 Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn 170 Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala 180 <210> 907 <211> 638 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (43) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

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<22	22>	(73)													
			equal	ls ar	to yr	f the	e nat	ural	lly o	occur	ring	j L-á	amino	aci	.ds
<22						-		٠				-			
	1> 5							•			•				
		427)													
<22	3> x	aa e	equal	ls ar	y of	the	nat	ural	.ly ċ	ccur	ring	L-a	mino	ači	ds "
<40	0> 9	07							-		į			- •	
Tyr	Val	. Glm	Gly	Ty-r	Ser	Leú	Ser	Gln	Ala	Asp	-Va1	AST	Ala	Phe	Ara
1				5					10					15	
Gln	Leu	Ser	Ala	Pro	Pro	Ala	Asp	Pro	Gli	Leu	Phe	His	Val	Äla	Ara
			20					25					30		
											,		50		
Trp	Phe	Ara	His	Ile	Glu	Ala	Len	Len	Ġľv	Yaa	Pro	Cire	Gly	Lve	GIÓ
•		35					40				ıı	45		בעם	GIY
												7.5			•
Gln	Pro	Cvs	Xaa	Leu	Pro	Ser	Xāa	Glin	Ara	Pro	A 1 =	Cue	Ala	ልገፏ	Pro
	50					55			9	110	60	-	n.t.a	nia	FLO
											00				· ·
Val	Val	Pro	Ser	Cvs	Trp	Asp	Pro	Xaa	Cve	Δrά	T.eïı	Hie	Leu	ጥ፣ታም	Aca
65				-1-	70					75	Dea	"12	ьец	TYL	80
					. •					, ,					00
Ser	Leu	Thr	Ara	Asn	Lvs	Glu	Val	Phe	Tle	Pro	Gln	Δċ'n	Glý	Tue	T. v č
			5	85	-1-				90		91	1135	Cly	95	Dys
Val	Thr	Trp	Tyr	Cys	Cys	Gly	Pro	Thr	Val	Tvr	Asp	Ala	Ser	His	Met
		•	100		•	4		105		-1-			110		
														:	
Gly	His	Ala	Arg	Ser	Tyr	Ile	Ser	Phe	Asp	Ìle	Leu	Ara	Arg	Val	Leu
		115	_		-		120					125			
Lys	Asp	Tyr	Phe	Lys	Phe	Asp	Val	Phe	Tyr	Cvs	Met	Asn	Ile	Thr	Asp
	130			-	-	135			•	•	140				
Ile	Asp	Asp	Lys	Ile	Ile	Lys	Arq	Ala	Àra	Gl'n	Asn	His	Leu	Phe	Glu
145		_	-		150	-	-			155					160
Gln	Tyr	Arg	Glu	Lys	Arg	Pro	Glu	Àlà	Àla	Gln	Leu	Leu	Glu	Asp	Val
	_	-		165					170					175	
Gln	Ala	Ala	Leu	Lvs	Pro	Phe	Ser	Val	Lvs	Leu	Asn	Glu	Thr	Thr	Asò
			180	•			•	185	-1-				190		
			_												
Pro	asa	Lys	Lys	Gl'n	Met	Leu	Glu	Ara	ile	Ġln	Hïs	Ala	Val	Gl n	Leu
			- 4 =				200	9				205			
Ala	Thr	Glu	Pro	Leu	Glu	Lys	Ala	Val	Gln	Ser	Ara	Leu	Thr	Glv	Glu
						-								4	

	210)				215	5				220	כ			
Glu 225		. Asn	Ser	Cys	230		ı Val	Leu	ı Lev	235		Ala	a Lys	s Asp	240
Leu	Ser	Asp	Trp	245	Asp	Ser	Thr	Leu	1 Gly 250		s Asp	Va:	l Thi	255	
Ser	Ile	Phe	Ser 260		Leu	Pro	Lys	265		Glu	ı Gly	/ Asp	270		Arg
Asp	Met	Glu 275		Leu	Asn	Val	Leu 280		Pro	Asp	Val	. Leu 285		Arg	y Val
Ser	Glu 290		Val	Pro	Glu	Ile 295		Asn	Phe	· Val	. Gln 300		Ile	· Val	Asp
Asn 305	Gly	Tyr	Gly	Туг	Val 310	Ser	Asn	Gly	Ser	Val 315		Phe	Asp	Thr	Ala 320
Lys	Phe	Ala	Ser	Ser 325	Glu	Lys	His	Ser	Туг 330		Lys	Leu	Val	Pro 335	
Ala	Val	Gly	Asp 340	Gln	Lys	Ala	Leu	Gln 345	Glu	-Gly	Glu	Gly	Asp 350	Leu	Ser
Ile	Ser	Ala 355	Asp	Arg	Leu	Ser	Glu 360	Lys	Arg	Ser	Pro	Asn 365	Asp	Phe	Ala
Leu	Trp 370	Lys	Ala	Ser	Lys	Pro 375	Gly	Glu	Pro	Ser	Trp 380	Pro	Cys	Pro	Trp
Gly 385	Lys	Gly	Arg	Pro	Gly 390	Trp	His	Ile	Glu	Cys 3 95	Ser	Ala	Met	Ala	Gly 400
Thr	Leu	Leu	Gly	Ala 405	Ser	Met	Asp	Ile	His 410	Gly	Gly	Gly	Phe	Asp 415	Leu
			420		Asp			425					430		
Glu	Asn	Asp 435	Cys	Trp	Val	Arg	Tyr 440	Phe	Leu	His	Thr	Gly 445	His	Leu	Thr
	450				Met	455					460				
165					Lys 470			Ala	Arg	Gln 475	Leu	Arg	Leu	Ala	Phe 480
	Mot	Hic	202	Trn	T	200	mb	T 011	N	TT1	C	a			

				485	•				490)			•	495	5
Glu	Ser	Ala	Leu 500		- Tyr	Glu	Lys	Phe 505		. Asn	Glu	Phe	9 Phe 510		ı Ası
Val	Lys	Asp 515		Leu	Arg	Ala	Pro 520		Asp	Ile	Thr	Gly 525		Phe	e Glu
Lys	Trp 530		Glu	Glu	Glu	Ala 535		Leu	Asn	Lys	Asn 540		Tyr	Asp	Lys
Lys 545		Ala		His		Ala	Leu	Cys	Asp	Asn 555		Asp	Thr	Arg	Thr 560
Val	Met	Glu	Glu	Met 565	Arg	Ala	Leu	Val	Ser 570	Gln	Суз	Asn	Leu	Tyr 575	
Ala	Ala	Arg	Lys 580	Ala	Val	Arg	Lys	Arg 585	Pro	Asn	Gln	Ala	Leu 590	Leu	Glu
Asn	Ile	Ala 595	Leu :	Tyr	Leu		His 600			Lys	Ile	Phe 605	Gly	Ala	Val
	Glu 610	Asp	Ser	Ser	Leu	Gly 615	Phe	Pro	Val	Gly	Gly 620	Pro	Gly	Thr	Ser
Leu 625	Ser	Leu	Glu	Ala	Thr 630	Val	Met	Pro	Tyr	Leu 635	Gln	Val	Leu :		
<211)> 9(l> 24 2> PI	18			-	٠					- "	: ,			
		omo s	apie	ens											
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Ser 1	His	Pro-	Leu	Arg 5	Ser	Arg:	Leu	Pro	Ser 10	Ala	Thr	Gly	Val	Gly 15	His
Ala	Leu	Ala	Arg 20	Ser	Phe	Cys	Arg	His 25	Leu	Gly	Ser	Ala	Phe 30	Pro	Ala
Gln		Ala 35		Arg		Thr	Glu 40		Val	Pro	Ala	Thr 45	Glu	Gln	Glu
Leu	Pro 50		Pro	Gln	Ala	Glu 55		,	Ser	Gly	Thr 60	Glu	Ser	Asp 	Ser
Asp 65			Val	Pro	Glu 70		Glu	Glú	Gln	Asp 75	Ser	Thr	Gln	Ala	Thr 80

Thr Gln Gln Ala Gln Leu Ala Ala Ala Glu Ile Asp Glu Glu Pro 85 90 Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala 100 105 110 Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr 120 125 Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val 140 135 Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys 145 150 155 Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe 165 170 Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr 180 185 190 Pro Thr Val Glu Glu Glu Glu Glu Glu Val Asp Glu Thr Gly 195 200 Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser 220 Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val 225 230 235 Asn Ala Ile Met Glu Leu Thr Met 245

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<211> 161

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<220>

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Ala	Val	Leu	Gly 20	Val	Phe	Ser	Leu	Ala 25	Ser	Trp	Val	Pro	Cys 30	Leu	Cys
1			5						10	: -	1	*		15	- I
			Ser	Gly	Pro	Ala	Thr	Ser	Ile	Thr	Glv	Val	Thr	Met	Glv
<400					•								· • .		7.
<213			sapie												,
<212															
<211							• •		•						
<210								•							
	. . .														
	-	•	• .												
	•		•								•				
. •															
Cys										-					
Tyr 145	Val	Val	Lys	Met	Tyr 150	Lys	His	Lèù	Lys	Cys 155	Lys	Arg	Xaa	Pro	Ser 160
	130				_	135				_	140				
Val		Val	Ser	Gly	Thr		Thr	Arg	His	Leu		Ala	Met	Ala	Phe
Ile	Cys	Val 115	Ile	Gl'n	Val	Pro	Pro 120	Glu	Met	Ārģ	Tyr	Thr 125	Asp	Tyr	Phe
	-		100					105					110		_
Asp	Ile	Asp	Met	Met	Val	Ser	Leu	Ĺeù	Àrg	Gln	Glu	Ásn	Ala		Ase
Glu	Gly	Arg	Pro	Glu 85	Ser	Asp	Álá	Ala	Ásp 90	His	Ťhr	Gly	Pro	Ĺýs 95	Phe
65	inr	. ATG	гh	PIO	70	Leu	GLU	GIU	Arg	Ala 75	Glu	Gly	Thr	Val	Asr 80
C1:-	50 	, 31-	* 12 - 12-	D÷-	61 -	55	0 3	63			60		 .		_
Glu		Arg	Ser	Ala	Gly		Ala	Arg	Pro	Gln			Ser	Ala	Ala
Gly	Ala	Glu 35	Pro	Gly	Leu	Arg	Leu 40	Leu	Ala	Val	Gln	Arg 45		Pro	Va]
Pro	Leu	Met	Trp 20	Arg	Arg	Ala	Val	Ser 25		Val	Ala	Gly	Ser 30		V <u>a</u>
1				. 5				-	10			•		15	
	Gly	Cys	Cys	Tyr	Gly	Ala	Gly	Arg	Arg	Val	Ala	Arc	, Leu	Leu	a Ala
< 40	0> 9	09													

45

Ser	Thr 50		L Thi	r Ar	g Lei	ı Ile 55		r Ala	a Phe	€ Ile	Let 60		u Lei	u Se:	r Th
Val 65		. Sei	Туг	Tle	e Met 70		n Arg	g Lys	s Glu	Met 75		ı Thi	г Туі	r Lei	ь Г у
Lys	Ile	Pro	Gly	Phe 85		Glu	ı Gly	/ Gly	Phe 90	Lys	: Ile	e His	5 Glu	ı Ala 95	,
Ile	Asn	Ala	Asp 100		. Asp	Cys	s Asp	Val		ı Val	Gly	туг	110		a Vai
Туr	Arg	11e		Phe	Ala	Met	: Ala 120		Phe	Phe	Phe	Val		e Ser	: Le
Leu	Met 130		Lys	Val	Lys	Thr 135		Lys	Asp	Leu	Arg 140		Ala	Val	His
Asn 145	Gly	Phe	Trp	Phe	Phe 150		Ile	Ala	. Ala	Leu 155		Gly	' Ile	Met	Val
				165					170					175	
			180					`185		Leu			190		
	÷	195					200			Ser		205			
*	210					215				Ala	220				
225				•	230					Val 235					240
			•	245					250	Asn				255	
			260					265		Ile	-		270		•
		275					280			Leu		285			
	290					295				Ser	300				
Pro 305	Asp	Arg	Ser		Asn 310	Pro	Asn	Leu		Ser	Phe	Ile	Thr	Arg	Ile

Thr	Ala	Pro	Thr	Leu 325	Ala	Pro	Gly	Asn	330		Ala	Val	. Val	1 Pro	
Pro	Thr	Pro	Pro 340	Ser	Lys	Ser	Gly	Ser 345		Leu	Asp	Ser	Asp 350		Phe
Ile	Gly	Leu 355	Phe	Val	Phe	Val	Leu 360					365		Ile	Arg
Thr	Ser 370	Thr	Asn	Ser	Gln	375		Lys	Leu			Ser	Gly	Ser	Asp
Ser 385	Val	Ile	Leu	Gly	Asp 390			Thr	Ser	Gly 395			Asp	Glu	Glu 400
Asp	Gly	Gln	Pro	Arg 405	Arg	Ala		Asp					Gly	Val 415	
Tyr	Ser	Tyr	Ser 420	Leu	Phe	: His								Leu	
Ile	Met	Met 435	Thr	Leu	Thr	Ser		٠				Ala 445		' Phe	
Ser	Met 450		Ser	Lys	Trp	Pro 455		Val	Trp	: Val	Lys 460		Ser	Ser	Ser
Trp	-	Cys	Leu	Leu	Leu		Val	Trp	Thr			Ala	Pro	Leu	
465 Leu	Thr	Ser	Arg	Asp	470 Phe	Ser	• • •	• •;	7.3	475				. ,	480
				485		:	. ":		. :		•	·		-	
<210 <211	> 98	1					·	: w	••		* <u>:</u>				
	> Но	T mos	apie	ńs -	. •	÷		. *					•		• •
222	> si > (6														
(223) (400)			uals	any	of	the	natu	rall	у ос	curr	ing	L-an	ino	acid	ls
			Val .	Arg 1	His .	Arg	Gly .	Asn	Lys 10	Val	Val	Lys	Lys	Lys 15	Val
ieu - 1	Val	Arg -	Cys. i	Arg 1	His 1	Phe	Ile	Cys 25	Pro	His	Ser	Leu	Arg 30	Leu	Ser

Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr 35 40 45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile 50 55 60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala 65 70 75 80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg 85 90 95

Gly Arg

<210> 912

<211> 206

<212> PRT

<213> Homo sapiens

<400> 912

Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe 1 5 10 15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile 20 25 30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met 35 40 45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn 50 55 60

Phe Pro Thr Glu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala 65 70 75 80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu 85 90 95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys 100 105 110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
115 120 125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp 130 135 140

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Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
                                                                                  155
  Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
 Here in the control of the control o
 Glu Ser Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
  180
 Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
  5 4 4 195 1 T 1 1 1 1 1 1 1 2 200 4 T 1 1 1 1 1 205 4 2 1 1 1 1 1 1
latina kalingan ang at talagga kalangan dan dalam kalangga da kalangga ka
 <210> 913
 <211> 91
 <213> Homo sapiens
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 Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
                        5
 Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
 20
                                                                      25
 Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
- 1 - 1 - 35 1 - 1 - 1 - 1 - 1 - 1 - 140 - 2 - 1 - 1 - 1 - 45 - 1 - 1
Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
  Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
65 70 75 80
Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
                   · · · · · · · · 85 · · ·
                                                                                90
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Arg Glu Leu Ser Thr Arg Gln Arg Ser Gln Ala Lys Pro Pro Ala Ser
Met Ala Ser Glu Phe Lys Lys Leu Phe Trp Arg Ala Val Val Ala
Glu Phe Leu Ala Thr Thr Leu Phe Val Phe Ile Ser Ile Gly Ser Ala
                             40
Leu Gly Phe Lys Tyr Pro Val Gly Asn Asn Gln Thr Ala Val Gln Asp
Asn Val Lys Val Ser Leu Ala Phe Gly Leu Ser Ile Ala Thr Leu Ala
Gln Ser Val Gly His Ile Ser Gly Ala His Leu Asn Pro Ala Val Thr
                                     90
Leu Gly Leu Leu Ser Cys Gln Ile Ser Ile Phe Arg Ala Leu Met
            100
                                105
Tyr Ile Ile Ala Gln Cys Val Gly Ala Ile Val Ala Thr Ala Ile Leu
                            120
                                               125
Ser Gly Ile Xaa Ser Ser Leu Thr Gly Asn Ser Leu Gly Arg Asn Asp
   130
Leu Ala Xaa Gly Val Asn Phe Gly Pro Xaa Pro Gly His Arg Asp His
                   150
                                       155
Arg Asp Pro Pro Ala Gly Ala Met Arg Ala Gly Tyr Tyr Arg Pro Glu
               165
                                   170
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Ala Pro

<210> 915 <211> 377

<212> PRT

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			His	Gly 5		Gly	Leu	Leu	Arg		Phe	туr	Ser	Arg 15	Arg
Ile	Asp	Ile	Thr 20		Ser	Ser	Val	Lys 25	Cys	Phe	His	Lys	Leu 30	Ala	Ser
Ala	Tyr	Gly 35	Ala	Arg	Gln	Leu	Gln 40	Gly	Tyr	Cys	Ala	Ser . 45	Leu	Phe	Ala
Ile	Leu 50	Leu	Pro	Gln	Asp	Pro 55	Ser	Phe	Gln	Met	Pro 60	Leu	Asp	Leu	туг
Ala 65	Туг	Ala	Val	Ala	Thr 70	Gly	Asp	Ala	Leu	Leu 75	Glu	Lys	Leu	Cys	Leu 80
Gln	Phe	Leu	Alạ	Trp 85	Asn	Phe	Glu	Ala	Leu 90	Thr	Gln	Ala	Glu	Ala 95	Trp
Pro	Ser	Val	Pro 100	Thr	Asp	Leu	Leu	Gln 105	Leu	Leu	Leu	Pro	Arg 110	Ser	Asp
Leu	Ala	Val 115	Pro	Ser	Glu	Leu	Ala 120	Leu	Leu	Lys	Ala	Val 125	Asp	Thr	Trp
Ser	Trp 130	Gly	Glu	Arg	Ala	Ser 135	His	Glu	Glu	Val	Glu 140	Gly	Leu	Val	Glu
Lys 145	Ile	Arg	Phe	Pro	Met 150	Met	Leu	Pro	Glu	Glu 155	Leu	Phe	Glu	Leu	Gln 160
Phe	Asn	Leu	Ser	Leu 165	Tyr	Trp	Ser	His	Glu 170	Ala	Leu _.	Phe	Gln	Lys 175	Lys
Thr	Leu	Gln	Ala 180	Leu	Glu	Phe	His	Thr 185	Val	Pro	Phe	Gln	Leu 190	Leu	Ala
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Tyr	Thr 210	Ser	Pro	Thr	Trp	Ser 215	Ala	Phe	Val	Thr	Asp 220	Ser	Ser	Trp	Ser
7 l -	A	*		C1 -	T	17-1	m	C1-	c	B	B	63			•••

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	Lys	э Ту.	r Se	r Se	r Asp 245		Phe	Gln	Ala	250		Asp	туг	Arg	у Тур 259	_
	Pro	ту:	r Gl	n Sei 260	r Phe	Gln	Thr	Pro	Gln 265		Pro	Ser	Phe	270		e Glr
	Asp	Ly:	3 Ar 27		l Ser	Trp	Ser	Leu 280		Tyr	Leu	Pro	Thr 285		Glr	ser
	Суз	7rg 290		n Tyı	Gly	Phe	Ser 295		Ser	Ser	Asp	Glu 300		Pro	Val	. Leu
	Gly 305		ı Th	r Lys	s Ser	Gly 310	Gly	Ser	Asp	Arg	Thr 315		Ala	Tyr	Glu	320
	Lys	Ala	Le	u Met	Leu 325	Cys	Glu	Gly	Leu	Phe 330		Ala	Asp	Val	Thr 335	_
	Phe	Glu	Gl	7 Trp 340	Lys	Ala	Ala	Ile	Pro 345	Ser	Ala	Leu	Asp	Thr 350	Asn	Ser
	Ser	Lys	355		Ser	Ser	Phe	Pro 360	Cys	Pro	Ala	Gly	Thr 365	Ser	Thr	Ala
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	Leu	Pro	Ser	Arg 20	Arg	Met	Lys	Asn	Pro 25	Ser	Ile	Val	Gly	Val 30	Leu	Cys
•	Ťhr	Asp	Ser 35		Gly	Leu	Asn	Leu 40	Gly	Cys	Arg	Gly	Thr 45	Leu	Ser	Asp
(Glu	His 50	Ala	Gly	Val	Ile	Ser 55	Val	Leu	Ala	Gln	Gln 60	Ala	Ala	Lys	Leu
7	Thr 65	Ser	Asp	Pro	Thr	Asp 70	Ile	Pro .	Val	Val	Cys 75	Leu	Glu	Ser	Asp	Asn 80

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Leu	Leu	Glu 35	Thr	Met	His	Leu	Thr 40	Gly	Ala	Asp	Xaa	Thr 45	Asn	Thr	Phe
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Glu 65	Phe	Leu	Ala	Arg	Leu 70	Met	Glu	Gln	Cys	Ala 75	Ser	Leu	Glu	Glu	Leu 80
Arg	Leu	Ala	Phe	Arg 85	Pro	Xaa	Met	Asp	Pro 90	Arg	Gln	Leu	Ser	Met 95	Met
Leu	Met	Leu	Ala 100	Gln	Ser	Asn	Pro	Gln 105	Leu	Phe	Ala	Leu	Met 110	Gly	Thr
Arg	Ala	Gly 115	Ile	Ala	Arg	Glu	Leu 120	Glu	Arg	Val	Glu	Gln 125	Gln	Ser	Arg
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Glu	Gly	Ala	Gly	Asp 165	Ala	Ala	Ala	Trp	Gln 170	Ala	Xaa	Ala	Arg	Ala 175	Arg
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Arg	Met	Pro 195	Phe	Glu	Val	Ala	Glu 200	Arg	Gly	Asp	Phe	Ser 205	Glu	Val	Arg
Arg	Val 210	Leu	Lys	Leu	Phe	Glu 215	Thr	Leu	Tyr	His	Cys 220	Glu	Ala	Gly	Ala
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- 1	GIY		ALG	vai	THE	Set	GTA	Gly	ser	Arg	Asp	Ala	vaı	Pro	GTA
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Ala	Glu	Pro	Pro	Lys	Met	Ala	Val	Cys	Ile	Ala	Val	Ile	Ala	Lys	Glu
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. ,	55	35					40		: :	ř	4.15	45			
Phe	His	Tvr	Met	Val	Hig	ጥኮ r		Leu	Δen	Val	Va 1	Asn	Glu	T	т10
	.50					55		2 .			· 60	nsp	Ju		116
	:					•									
Ser	Ala	Met	Gļy	Lys	Ala	Leu	Val	Asp	Gln	Arg	Glu	Leu	Tyr	Leu	Gly
65			• .	P S Ta	70			. •		7:5	:				8.0
	T		D			_	_	_		_					•
Leu	reu	TYE	PFO	25	GIU	Asp	Tyr	Lys	Val	Tyr	Gly	Tyr	Val	Thr	Asn
	-		-						5.0			•		95	
Ser	Lys	Val	Lys	Phe	Val	Met	Val	Val	Asp	Ser	Ser	Asn	Thr	Ala	Leu
			100	· .:				105			200		110		
Arg	Asp		Glu	Ile	Arg	Ser	Met	Phe	Arg	Lys	Leu	His	Asn	Ser	Tyr
		115	-	*	-		120		-			125		-	
rhr	Asp	Val	Met	Cve	Acr	Dro	Dhe	Tyr	Acr	Dro	Gl v	Acr	7	T10	C1=
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Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
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Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
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Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
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Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr

Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr

130

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Pro	Thr	Gln	Val	Leu 165	Gly	Lys	Ser	Cys	Lys 170	Pro	Ile	Pro		Met -175	
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Cys	Val	Leu 195	Leu	Ile	Val	Ala	Gly 200	Val	Ala	Leu	Phe	Met 205	Tyr	• .	
Lys	Lys 210	Val	Val	Gly	Ile	Glu 215	Glu	His	Thr	Val	Gly 220	Tyr	F . :	Glu	Leu
Leu	Leu	Leu	Leu	Ser	Leu	Thr	Leu	Asp	Gly	Leu 235	Thr	Glv	Val	Ser	Gln
Asp	His	Met	Arg	Ala 245	His	Туг	Gln	Thr	Gly 250	Ser	Asn	His	Met	Met 255	Leu
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Lys	Ala	His 35	Val	Phe	Glu	Cýs	Asn 40	Leu	Glu	Ser	Ser	Val	. Glu	Ser	: Ile
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Leu 65	Gly	Val	Val	Arg	Ile 70	туr	His	Arg	Lys	Ala 75		Туг	Leu	Leu	Ala 80
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Asn	Asp	Gly	Gly	Ile 245	Phe	Asp	Asp	Pro	Pro 250	Ala	Leu	Ser	Glu	Ala 255	Gly
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Glu	Pro 290		Pro	Thr	Met	Thr 295		Gln	Thr	Thr	Leu 300		Pro	Asn	Glu
Glu 305	Glu	Ala	Phe	Ala	Leu 310		Pro	Ile	Asp	Ile 315		Val	Lys	Glu	Thr 320
Lys	Ala	Lys	Arg	Lys 325		Lys	Leu	Ile	-Val 330		Ser	Val	Lys	Glu 335	Leu
Asp	Ser	Lys	Thr 340		Arg	Ala	Gln	Leu 345		Asp	Tyr	Ser	Asp 350	·Ile	Val
Thr	Thr	Leu 355	Asp	Leu	Ala	Pro	Pro 360	Pro	Arg	Asn	tie	:::n -3	en T		
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Leu	Ala	Aşp		Lys	Ser	Gly	Gln	Ile 185			ĠĨŅ	Val	Pro 190		val
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Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp 65 70 75 80

Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys 85 90 95

Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg 100 105 110

Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro 115 120 125

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Glu	Asn	Cys	20 20		Pro	Glu	Asp	Leu 25		Asn	-Gly	√.Leu	Lys 30		Thr
Asp	Thr	Gln 35		Ala	Glu	Cys	Ala 40		Pro	Pro	.Val	Pro 45		Pro	Lys
Asn	Gln 50		Ser	Gln	Ser	Lys 55		Leu	Arg	Asp	Asp 60		_Ala	His	_Leu
Gln 65	['] Glu	Asp	-Gln	Gly:	Glu 70	Glu	Glu :	-Cys	Phe	His 75		. Cys	Ser	Ala	Ser 80
Phe	Glu	Glu	Glu	Pro 85	Gly	Ala	Asp	Lys	Val 90		Asn	Lys	Ser	Asn 95	Glu
Asp	Val	Asn	Ser 100		Glu	Leu	Asp	Glu 105	Glu	Tyr	Leu	Ile	Glu 110	Leu	Glu
Lys	Asn	Met 115	Ser	Asp	Glu		Lys 120		Lys	Arg	Arg	Glu 125	Glu	Ser	Thr
Arg	Leu 130	Lys	Glu	Glu	Gly				Phe	Lys	Lys 140	Gly	Asp	Tyr	Ile
Glu 145	Ala	Glu	Ser	Ser	Tyr 150	Ser	Arg	Ala	Leu	Glu 155	Met	Cys	Pro	Ser	Cys 160
Phe	Gln	Lys	Glu	Arg 165	Ser	Ile	Leu		Ser 170	Asn	Arg	Ala	Ala	Ala 175	Arg
Met	Lys	Gln	Asp 180	Lys	Lys	Glu			Ile	Asn	Asp	Cys	Ser 190	Lys	Ala
Ile	Gln	Leu 195	Asn	Pro	Ser	Tyr	Ile 200	Arg	Ala	Ile	Leu	205			Glu
Leu	Tyr 210	Glu	Lys	Thr		Lys 215	Leu	Asp	Glu	Ala	Leu 220	Glu	Asp	Tyr	Lys
Ser 225	Ile	Leu	Glu	Lys	Asp 230	Pro	Ser	Ile	His	Gln 235	Ala	Arg	Glu	Ala	Cys 240
let	Arg	Leu	Pro	Lys 245	Gln	Ile	Glu		Arg 250	Asn	Glu	Arg	Leu	Lys 255	Glu

Glu Met Leu Gly Lys Leu Lys Asp Leu Gly Asn Leu Val Leu Arg Pro 260 265 270

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<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 927

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Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala Ala 35 40 45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Gln Glu His Trp 50 55 60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met 65 70 75 80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr
85 90 95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
100 105 110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe 115 120 125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His 130 135 140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val 145 150 155 160

Tyr	Glņ	Tyr	Ser	Thr 165	Glu	Pro	Ile	Asn	Thr 170	Phe	His	Gly	Ile	His 175	Gln
Asn	Glu	Asp	Glu 180	Pro	Ile	Arg	Val	Ser 185	Tyr	His	Arg	Asn	11e 190	His	Tyr
Asn	Ser	Val 195	Val	Asn	Pro	Asn	Lys 200	Ala [.]	Thr	Ile	Gly	Val 205	-	Leu	Gly
Leu.	Pro 210		Phe	Ly.s	Pro	Gl <u>y</u> 215	Phe	Ala:	Glu	Gln,	Ser 220	Leu _.	Met	Lys	Asn
Ala: 225.		Lys	Thr	Ser	Glu 230	Glu	Ser	Trp	Ile	Glu 235	Gln	Gln	Met	Leu	Glu 240
Asp	Lys	Lys	Arg	Ala 245	Thr	Asp	Trp	Glu	Ala 250	Thr	Asn	Glu	Ala	Ile 255	Glu
Glu	Gln		Ala 260		Glu	Ser	Tyr	Leu 265	Gln	Trp	Leu	Arg	Asp 270	Gln	Glu
Lys					Val		Gly 280	Pro	Ser	Gln	Pro	Arg 285	Lys	Ala	Ser
Ala	Thr 290	Cys	Ser	Ser				Ala			Ser 300			Glu	Glu
Trp 305	Thr	Ser	Arg	Ser	Pro 310	Arg	Gln	Glu .		Gln 315	Pro			Leu	Ser 320
Thr	Leu	Ser	Cys	Met 325	Leu	Asn				:				•	-
	:	•	,	٠				•							
<211)> 92 l> 43 !> PF	36								- :	. *	٠	٠.		-
			sapie	ens							-				
	.> sı					٠.			-	ě					
	!> (2 !> Xa		uals		of		natu		у ос		ing	L-am	ino	acid	s
)> .> SI :> (2														
		-		anu	of	+ ha	natu	- -31:	·	~!! ~~	ina	T _ am	ino	acid	_

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Lys	Glu	ı Asr	n Glm 20		His	Туг	His	1le 25		Glr	Lys	Phe	Leu 30		. Leu
Gly	Asp	35	e Asp	Gly	Leu	Met	Asp 40		Phe	Ser	Lys	Trp 45		Ser	Lys
Ser	Arg 50	Asn	ı Asn	Leu	Pro	Gly 55		Leu	Leu	Arg	Phe 60		Thr	His	Leu
Ile 65	Leu	Phe	Phe	Arg	Thr 70	Leu	Gly	Leu	Gln	Thr 75		Glu	Glu	Val	Ser 80
Ile	Glu	Val	. Leu	Lys 85	Thr	Tyr	Ile	Gln	Leu 90		Ile	Arg	Glu	Lys 95	His
Thr	Asn	Leu	11e	Ala	Phe	Tyr	Thr	Cys 105	His	Leu	Pro	Gln	Asp 110	Leu	Ala
Val	Ala	Gln 115	Tyr	Ala	Leu	Phe	Leu 120	Glu	Ser	Val	Thr	Glu 125	Phe	Glu	Gln
Arg	His 130	His	. Cys	Leu	Glu	Leu 135	Ala	Lys	Glu	Ala	Asp 140	Leu	Asp	Val	Ala
Thr 145	Ile	Thr	Lys	Thr	Val 150	Val	Glu	Asn	Ile	Arg 155	Lys	Lys	Asp	Asn	Gly 160
Glu,	Phe	Ser	His	His 165	Asp	Leu	Ala	Pro	Ala 170	Leu	Asp	Thr	Gly	Thr 175	Thr
Glu	Glu	Asp	Arg 180	Leu	Lys	Ile	Asp	Val 185	Ile	Asp	Trp	Leu	Val 190	Phe	Asp
Pro	Ala	Gln 195	Arg	Ala	Glu	Ala	Leu 200	Lys	Gln	Gly	Asn	Ala 205	Ile	Met	Arg
Lys	Xaa 210	Leu	Ala	Ser		Lys 215	His	Xaa .	Ala	Ala	Lys 220	Glu	Val	Phe	Val
Lys 225	Ile	Pro	Gln	Asp	Ser 230	Ile	Ala	Glu :		Tyr 235	Asn	Gln	Cys		Glu 240

Gln	Gly	Met	Glu	Ser 245	Pro	Leu	Pro	Ala	Glu 250	Asp		Asn		11e 255	Arg
Glu	His	Leu	Cys 260	Ile	Xaa	Ala	Tyr	Leu 265		Ala	His	Glu	Thr 270	Phe	Asn
Glu	Trp	Phe 275			Met		280		Pro	Gln	Lys	285		Leu	Ile
Pro	Gln 290				Thr								Lys	Glu	Lys
Lys 305		Glu	Met	Asp	Phe 310	Gly	Ile	Trp	Lys	Gly 315	His	Leu	Asp	Ala	Leu 320
		Asp			Glu	Lys	Met	туг	Asn 330	Val	Leu	Leu	Phe	Val 335	Asp
					Asp										
	Thr				Val			Arg	Lys	Leu	Cys	Leu 365	Pro	Met	Leu
Cys	Phe 370	Leu 	Leu	His	Thr	Ile 375	Leu	His	Ser	Thr	Gly 380	Gln 	_	Gln	Glu
Cys 385	Leu	Gln	Leu	Ala	Asp 390	Met	Val	Ser 3 :	Ser	Glu 395	Arg	His	Lys :		Tyr 400
Leu	Val	Phe	Ser	Lys 405	Glu	Glu	Leu	Arg	Lys 410		Leu				
Glu	Ser		Leu 420	Met	Leu	Leu		Gln 425	-	Leu	_		Leu 430	Gly	Tyr
Glu	Ile	Gln 435	Leu	٠.	÷,		1	-				٠.,			
	> 92										-	ě			
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	> > SI > (1			·	·			- :	• -	•		-			
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 Leu Gln Val Ser Gly Pro Leu Leu Val Val Gln Leu Leu Glu Thr Pro
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Leu Leu Cys Leu Val Ser Tyr Ala Ser Leu Val Ala Thr Asn Ala Ala
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Arg Leu Arg Leu Ile Ala Gly Pro Glu Lys Arg Leu Leu Glu Met Gly
Leu Arg Arg Ala Gln Gly Pro Asp Gly Gly Leu Thr Ala Ser Thr Tyr
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Ser Tyr Leu Gly Gly Phe Asp Ser Ser Ser Asn Val Leu Ala Gly Gln
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Leu Arg Gly Val Pro Val Ala Gly Thr Leu Ala His Ser Phe Val Thr
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (19)

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Thr	Gly		Pro 20	Ala					Thr				Val		Leu
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	Glu 50		Glu		Ile			Glu	Alá	Lys	Ala 60		Asp	Asp	Met
Phe 65	-Glu	Ser	Ser	Thr	Leu 70	Ser	Asp	Gly	Gln	Ala 75		Ala	"Asp	Gln	Ser 80
Glu	Ile		Pro	85					90	_	Thr			95	туг
Glu	Asp		Lys 100												Ser
Gly	Ala	Glu 115	Glu	Ala	Leu	Val	Asp 120	His	Thr	Pro	Tyr	Leu 125	Ser	Ile	Ala
Thr	Thr 130	His	Leu	Met	Asp	Gln 135	Ser	Val	Thr		Val 140	Pro	Asp	Val	Met
			Asn				Tyr		Asp		Thr			Val	Ser 160
Thr	Phe		Lys								Ser	Pro	Leu	Thr 175	Ile
Tyr	Ser	Gly	Ser 180	Glu	Ala	Ser	Gly	His 185	Thr	Glu	Ile	Pro	Gln 190	Pro	Ser
Ala	Leu	Pro 195	Gly	Ile	Asp	Val	Gly 200	Ser 	Ser 	Val	Met	Ser 205	Pro	Gln	Asp
Ser	Phe 210	Lys	Glu								Thr 220		Lys	Pro	Ser
		Glu	Tyr								Ser			Pro	_

Thr	Lys	: Leu	Glu	245		Glu	. Asp	Asp	Gly 250		Pro	Glu	Leu	255	ı Glu
Glu	Met	Glu	Ala 260		Pro	Thr	Glu	Leu 265		Ala	Val	Glu	Gly 270		Glu
Ile	Leu	Gln 275		Phe	Gln	Asn	Lys 280		Xaa	Gly	Gln	Val 285		Gly	Glu
Ala	Ile 290		Met	Phe	Pro	Thr 295		Lys		Pro	Glu 300	Ala	Gly	Thr	Val
Ile 305	Thr	Thr	Ala		Glu 310	Ile	Glu	Leu	-	Gly 315		Thr	Gln	Trp	Pro 320
				325					330			-		335	•
•			340					345			•		350		Ser
		355		-		. • •	360	٠				365			Asp
	370					375			•		380				Asp
385					390		•	-		395					Val 400
				405					410			_		415	Phe
-		•	420					425					430	-	Leu
		435					440					445		_	
	450					455					Cys 460				-
465					470					475	Cys				480
٠				485					490		Asn			495	_
Leu	Cys	Leu	Pro 500		Tyr	Val		Ala 505	Leu	Cys	Glu		Asp 510	Thr	Glu

Thr	Cys	Asp 515		Gly	Trp	His	Lys 520		Gln	Gly	Gln	Cys 525	_	Lys	Tyr
Phe	Ala 530		Arg	Arg	Thr	Trp 535		Ala	Ala	Glu	Arg 540	Glu	Cys	Arg	Leu
Gln 545	Gly	Ala	His	Leu						His 555		Glu	Gln	Met	Phe 560
Val	Asn	Arg	Val	Gly 565	His	Asp	Tyr	Gln	Trp 570	Ile	Gly	Leu	Asn	Asp 575	Lys
Met	Phe	Glu	His 580	Asp	Phe	Arg	Trp	Thr 585	-Asp	Gly	Ser	Thr	Leu 590	Gln	Tyr
Glu	Asn	Trp 595	Arg	Pro	Asn	Gln	600					605		Gly	
Asp	Cys 610	Val	Val	Ile	Ile	Trp 615								Asp	
Pro 625	Cys				Leu 630:					Lys 635		_		Val	Ala 640
Cys	Gly	Gln	Pro	Pro 645	Val	Val	Glu	Asn	Ala 650	Lys	Thr	Phe	Gly	Lys 655	Met
Lys	Pro	Arg	Tyr 660	Glu	Ile.	Asn		Leu - .665	Ile	Arg:	Tyr	His	Cys 670	Lys	Asp
Gly	Phe	Ile. 675	Gln	Arg	His	Leu	Pro 680	Thr	Ile	Arg.	Суз	Leu 685	Gly	Asn :	Gly
Arg	Trp 690	Ala	Ile	Pro		11e 695	Thr	Cys	'Met	Asn:	Pro 700	Ser	Ala	Tyr	Gln
Arg 705	Thr	Tyr	Ser	Met	Lys 710	Tyr	Phe	Lys	Asņ	Ser 715	Ser	Ser ·	Ala [.]	Lys	Asp 720
Asn	Ser	Ile	Asn"	Thr 725		Lys	His:		His. 730	Arg-	Trp	Ser		Arg 735	Trp '
Gln	Glu	Ser	Arg 740	Arg		٠.		.*						• :	
-				•											
< 7 1 A	, > 93	1													
	- 93 > 20					_									
	> PR						•				•				

<213> Homo sapiens

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Lys	Glu	Lys	Gly 20		Vaļ	Val	Leu	Lys 25		Glu	Xaa	Ser	Ala 30	-	Met
Lys	Ile	Pro 35		Asn	Met	Trp	Val 40	Glu	Ala	Trp	Glu	Thr 45	Ala	Lys	Pro
Ile	Pro 50		Arg	Arg	Gln	Arg 55	Arg	Leu	Phe	Asp	Asp 60	Thr	Arg	Glu	Ala
Glu 65	Lys	Val	Leu	His	Tyr 70	Leu	Ala	Ile	Gln	Lys 75	Pro	Ala	Asp	Leu	Ala 80
Arg	His	Leu	Leu	Pro 85	Cys	Val	Ile	His	Ala 90	Ala	Val	Leu	Lys	Val 95	Lys
Glu	Glu	Glu	Ser 100	Leu	Glu	Asn	Ile	Ser 105	Ser	Val	Lys	Lys	Ile 110	Ile	Lys
Gln	Ile	Ile 115	Ser	His	Ser	Ser	Lys 120	Val	Leu	His	Phe	Pro 125	Asn	Pro	Glu
Asp	Lys 130	Lys	Leu	Glu	Glu	11e 135	Ile	His	Gln	Ile	Thr 140	Asn	Val	Glu	Ala
Leu 145	Ile	Ala	Arg	Ala	Arg 150	Ser	Leu	Lys	Ala	Lys 155	Phe	Gly	Thr	Glu	Lys 160
Cys	Glu	Gln	Glu	Glu 165	Glu	Lys	Glu	Asp	Leu 170	Glu	Arg	Phe	Val	Ser 175	Cys
Leu	Leu	Glu	Gln 180	Pro	Glu	Val	Leu	Val 185	Thr	Gly	Ala	Gly	Arg 190	Gly	His

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200

Leu

195

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       35 40
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Leu Phe Cys Ile Asn Cys Tyr Asp Gly
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Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln
Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
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Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
             70
                      75
Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
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Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile
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Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
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Ala	Gly	Leu	Ser 20		Trp	Thr	Leu	Gln 25	Pro	Gln	Trp	Ile	Gln 30		Arg
Asn	Met	Ala 35		Leu	Lys	Asp	Ile 40		Arg	Arg	Leu	Lys 45		Ile	Lys
Asn	Ile 50	Gln	Lys	Ile	Thr	Lys 55		Met	Lys	Met	Val 60		Ala	Ala	Lys
Tyr 65	Ala	Arg	Ala	Glu	Arg 70	Glu	Leu	Lys	Pro	Ala 75	Arg	Ile	Tyr	Gly	Leu 80
Gly	Ser	Leu	Ala	Leu 85	Tyr	Glu	Lys	Ala	Asp 90	Ile	Lýs	Gly	Pro	Glu 95	Asp
Lys	Lys	Lys	His 100	Leu	Leu	Ile	Gly	Val 105	Ser	Ser	Asp	Arg	Gly 110	Leu	Суѕ
Gly	Ala	Ile 115	His	Ser	Ser	Ile	Ala 120	Lys	Gln	Met	Lys	Ser 125	Glu	Val	Ala
Thr	Leu 130	Thr	Ala	Ala	Gly	Lys 135	Glu	Val	Met	Leu	Val 140	Gly	Ile	Gly	Asp
Lys 145	Ile	Arg	Gly	Ile	Leu 150	Tyr	Arg	Thr	His	Ser 155	Asp	Gln	Phe	Leu	Val 160
Ala	Phe	Lys	Glu	Val 165	Gly	Arg	Lys	Pro	Pro 170	Thr	Phe	Gly	Asp	Ala 175	Ser
Val	Ile	Ala	Leu 180	Glu	Leu	Leu	Asn	Ser 185	Gly	Tyr	Glu	Phe	Asp 190	Glu	Gly
Ser	Ile	Ile 195	Phe	Asn	Lys	Phe	Arg 200	Ser	Val	Ile	Ser	Туг 205	Lys	Thr	Glu
Glu	Lys 210	Pro	Ile	Phe	Ser	Leu 215	Asn	Thr	Val	Ala	Ser 220	Ala	Asp	Ser	Met
Ser 225	Ìle	Tyr	Asp		Ile 230	Asp	Ala	Asp		Leu 235	Gln	Asn	Tyr	Gln	Glu 240

Туз	Ası	n Lei	ı Ala	a Asr 245		e Ile	э Туг	ту	r Sei 250		ı Ly:	s Glu	ı Sei	255	
Ser	Glu	ı Glr	í Séi 260	Ala	Arg	, Met	Thr	265		t Asp) Ası	n Ala	270		s Ası
Ala	Ser	275		: Ile	Asp	Lys	280		Leu	ı Thr	Phe	285		T hr	Arq
Gln	Ala 290		Ile	Thr	Lys	Glu 295		Ile	e Glu	ıIle	300		Gly	Ala	Ala
Ala 305	Leu				٠	• •	٠.								
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Gly	Val	Val	Ala 20	Leu	Phe	Glu	Glu	His 25	Cys	Ala	Pro	Leu	Val 30	Trp	Val
Tyr	Thr	Tyr 35	Glu	Cys	Cys	His	Tyr 40	Met	Cys	Ser	Ala	Leu 45	Leu	Ser	Leu
Ser	Cys 50	Pro	Cys	Pro	Ala	Pro -55	Ser	Glu	Arg	Ala	Ala 60	Gly	Leu	Cys	Cys
Arg 65	Leu	Val	Vål	Pro	Cys 70	His	Lys	Gly	Met	Pro 75	Arg	Leu	Thr	Asp	Leu 80
Ser	Val	Lys	Thr	Lys 85	Asp	Val	Trp	Glu	Ile 90	Pro	Arg	Glu	Ser	Leu 95	Gln
Leu	Ile	Lys	Arg 100	Leu	Gly	Asn	Gly	Gln 105	Phe	Gly	Glu	Val	Trp 110	Met	Gly
let	Leu	Arg 115		Asn	Tyr	Ser	Leu 120	Ile	Ser	Phe		Val 125	Trp	Lys	Ile
ro	Asn 130	Thr	Lys	Asp		Arg 135									

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Ser	Gly Gly Trp	Gly 20	5 Cys		٠.		Ala			Ser	Gln	Cys		
Ala Gly	Gly	Gly 20	5 Cys		٠.		Ala			Ser	Gln	Cys		
Ala Gly	Gly	Gly 20	5 Cys		٠.		•					0,70		
Gly	Trp	20		Thr	Gly	. Gl v								
Gly	Trp	20		Thr	Glý	Gl.			•					
Gly	Trp	20			- 2		Ala	Glv	Glv	Glv	G1v	Glv	Glv	G1
		Gly	Glv			•	25		2	1		30	011	
		Gly	Glv				,							
		-		Ala	Gly	Glv	Lvs	Cvs	Cvs	Asp	Ala	Va 1	Pro	G1s
~1			•		-			- 2 -	-1-					OI.
~1														
3 ΙΥ	Arq	Arq	Val	Glu	Ala	Glu	Tvr	Gln	Phe	Pro	Ser	Glv	f.ve	Δ1:
50	•						-1-				-	O _L y	- 173	ALC
						٠.								
1et	Ala	Ile	Phe	Ser	Val	Tvr	Val	Val	Asn	Lvs	Ala	Glv	Glv	T.01
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:						*								
yr	Gln	Leu	Asp	Ser	Tyr	Ala	Pro	Arq	Ala	Glu	Ala	Glu	Lvs	Thi
			85		-									
•													7.3	
Ser	Tyr	Pro	Leu	Asp	Leu	Leu	Leu	Lvs	Leu	His	Asp	Glu	Ara	Va 1
	-	100		•		_							•••	
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al	Ala	Phe	Gly	Gln	Arg	Asp	Glv	Ile	Ara	Va1	Glv	His	Ala	Va 1
	115		•		_				5					• • • •
		**								,				
la	Ile	Asn	Gly	Met	Asp	Val	Asn	Gly	Ara	Tvr	Thr	Ala	Asp	Glv
30			_		135			•.						1
			-											
lu	Val	Leu	Glu	Tyr	Leu	Gly	Asn	Pro	Ala	Asn	Tvr	Pro	Val	Ser
				150		-	.*		155		- 3			160
rg	Phe	Gly	Arg	Pro	Arg	Leu	Thr	Ser	Asn	Glu	Lvs	Leu	Met	Leu
			165		_			170						
er	Met	Phe	His	Ser	Leu	Phe	Ala	Ile	Gly	Ser	Gln	Leu	Ser	Pro
		180							•					
	-	-												
ln (Gly	Ser	Ser	Gly	Ile	Glu	Met	Leu	Glu	Thr	Asp	Thr	Phe	Lvs
				_										-1-
	•													
is (Cys	Tyr	Gln	Thr	Leu	Thr	Gly	Ile	Lys	Phe	Val	Val	Leu	Ala
10		-		•	215		-		-	220	. 7			
				•								•		
ro i	Àrq	Gln	Ala	Glv	Tla		~		7	_	_		_	
	50 Met Tyr Ser Val 1a 30 lu rg er ln is 10	Met Ala Tyr Gln Ger Tyr Tal Ala 115 La Ile 30 Lu Val rg Phe er Met Ln Gly 195 Ls Cys 10	35 Gly Arg Arg 50 Met Ala Ile Cyr Gln Leu Ger Tyr Pro 100 Tal Ala Phe 115 La Ile Asn 30 Tu Val Leu rg Phe Gly er Met Phe 180 In Gly Ser 195 is Cys Tyr 10	35 Gly Arg Arg Val 50 Met Ala Ile Phe Cyr Gln Leu Asp 85 Ger Tyr Pro Leu 100 Tal Ala Phe Gly 115 La Ile Asn Gly 30 Lu Val Leu Glu rg Phe Gly Arg 165 er Met Phe His 180 In Gly Ser Ser 195 is Cys Tyr Gln 10	35 Gly Arg Arg Val Glu 50 Met Ala Ile Phe Ser 70 Cyr Gln Leu Asp Ser 85 Ger Tyr Pro Leu Asp 100 Tal Ala Phe Gly Gln 115 La Ile Asn Gly Met 30 Flu Val Leu Glu Tyr 150 rg Phe Gly Arg Pro 165 er Met Phe His Ser 180 In Gly Ser Ser Gly 195 is Cys Tyr Gln Thr	35 Gly Arg Arg Val Glu Ala 50 Set Ala Ile Phe Ser Val 70 Cyr Gln Leu Asp Ser Tyr 85 Ger Tyr Pro Leu Asp Leu 100 Tal Ala Phe Gly Gln Arg 115 La Ile Asn Gly Met Asp 30 Tu Val Leu Glu Tyr Leu 150 rg Phe Gly Arg Pro Arg 165 er Met Phe His Ser Leu 180 In Gly Ser Ser Gly Ile 195 is Cys Tyr Gln Thr Leu 10	35 Gly Arg Arg Val Glu Ala Glu 50 Met Ala Ile Phe Ser Val Tyr 70 Cyr Gln Leu Asp Ser Tyr Ala 85 Ger Tyr Pro Leu Asp Leu Leu 100 Tal Ala Phe Gly Gln Arg Asp 115 Llu Val Leu Glu Tyr Leu Gly 150 rg Phe Gly Arg Pro Arg Leu 165 er Met Phe His Ser Leu Phe 180 In Gly Ser Ser Gly Ile Glu 195 Cys Tyr Gln Thr Leu Thr 10 Cyr Gly Arg Pro Leu Chan 100 Cyr Cyr Gln Thr Leu Thr 100 Cyr Cyr Gln Thr Leu Thr 100 Cyr Cyr Cyr Gln Thr Leu Thr 100	35 Arg Arg Val Glu Ala Glu Tyr 55 Met Ala Ile Phe Ser Val Tyr Val 70 Cyr Gln Leu Asp Ser Tyr Ala Pro 85 Ger Tyr Pro Leu Asp Leu Leu Leu 100 Cal Ala Phe Gly Gln Arg Asp Gly 115 Clu Val Leu Glu Tyr Leu Gly Asn 135 Clu Val Leu Glu Tyr Leu Gly Asn 150 Fer Met Phe His Ser Leu Phe Ala 180 Cys Tyr Gln Thr Leu Thr Gly 100 Cyr Gly Arg Cyr Gln Thr Leu Thr Gly 100 Cyr Gly Arg Cyr Cyr Gln Thr Leu Thr Gly 100 Cys Tyr Gln Thr Leu Thr Gly 100 Cys Tyr Gln Thr Leu Thr Gly 100 Cys Tyr Gln Thr Leu Thr Gly 100	Sly Arg Arg Val Glu Ala Glu Tyr Gln 55 Met Ala Ile Phe Ser Val Tyr Val Val 70 Cyr Gln Leu Asp Ser Tyr Ala Pro Arg 85 Ser Tyr Pro Leu Asp Leu Leu Leu Lys 100 Cal Ala Phe Gly Gln Arg Asp Gly Ile 115 Clu Val Leu Glu Tyr Leu Gly Asn Pro 150 rg Phe Gly Arg Pro Arg Leu Thr Ser 165 er Met Phe His Ser Leu Phe Ala Ile 180 ln Gly Ser Ser Gly Ile Glu Met Leu 200 is Cys Tyr Gln Thr Leu Thr Gly Ile 10 Clu Cys Tyr Gln Thr Leu Thr Gly Ile 10 Con Strand Con Ser Ser Gly Ile 10 Con Ser Ser Gly Il	Sly Arg Arg Val Glu Ala Glu Tyr Gln Phe 50 Met Ala Ile Phe Ser Val Tyr Val Val Asn 70 Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala 85 Met Tyr Pro Leu Asp Leu Leu Leu Lys Leu 100 Mal Ala Phe Gly Gln Arg Asp Gly Ile Arg 115 Met Asn Gly Met Asp Val Asn Gly Arg 30 Mu Val Leu Glu Tyr Leu Gly Asn Pro Ala 150 Met Phe His Ser Leu Phe Ala Ile Gly 180 Met Asp Clu Met Leu Glu Met Leu Glu 195 Met Phe His Ser Leu Phe Ala Ile Gly 180 Met Cys Tyr Gln Thr Leu Thr Gly Ile Lys 10 Met Cys Tyr Gln Thr Leu Thr Gly Ile Lys 10	Sily Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro 50	35 Alo Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser 55 Met Ala Ile Phe Ser Val Tyr Val Val Asn Lys Ala 75 Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala Glu Ala 85 Eer Tyr Pro Leu Asp Leu Leu Leu Lys Leu His Asp 100 Tal Ala Phe Gly Gln Arg Asp Gly Ile Arg Val Gly 115 La Ile Asn Gly Met Asp Val Asn Gly Arg Tyr Thr 135 Tu Val Leu Glu Tyr Leu Gly Asn Pro Ala Asn Tyr 150 Tyr Phe Gly Arg Pro Arg Leu Thr Ser Asn Glu Lys 165 Eer Met Phe His Ser Leu Phe Ala Ile Gly Ser Gln 180 Lu Ser Ser Gly Ile Glu Met Leu Glu Thr Asp 200 Ecys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val 215 Exp Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val 225	35 Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser Gly 50 Met Ala Ile Phe Ser Val Tyr Val Val Asn Lys Ala Gly 70 Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala Glu Ala Glu 85 Ger Tyr Pro Leu Asp Leu Leu Leu Lys Leu His Asp Glu 110 Mal Ala Phe Gly Gln Arg Asp Gly Ile Arg Val Gly His 125 La Ile Asn Gly Met Asp Val Asn Gly Arg Tyr Thr Ala 130 Mu Val Leu Glu Tyr Leu Gly Asn Pro Ala Asn Tyr Pro 150 Trg Phe Gly Arg Pro Arg Leu Thr Ser Asn Glu Lys Leu 165 Met Met Phe His Ser Leu Phe Ala Ile Gly Ser Gln Leu 180 In Gly Ser Ser Gly Ile Glu Met Leu Gly Ile Lys Phe Val Val 101 Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val 101 Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val 101 Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val 101 Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val 101	Sily Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser Gly Lys 50

225	i				230)				235	5				240
Ile	туг	Ser	. Ast	245		a Leu	ı Lys	. Asr	250		ту:	Ser	Leu	Glu 255	
Pro	Ile	e Arç	260		Leu	ı Phe	Asp	Glm 265		Leu	Lys	. Leu	Ala 270		Glu
Val	Ala	Glu 275		Ala	Gly		280		Pro	Gly	' Ser	•			
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	0> 9 1> 3				ž			•				,			
	2> P 3> H	RT omo	sapi	ens				. ~			ī				
	0> 9	-				. • • •					-		÷. :		
Pro 1		Ser	Pro	Leu 5		Arg	Glu	Glu	Gly 10	Asp	Lys	Trp	Gly	Glu 15	
Trp	Cys	Gln	Met 20		Trp	Arg	Arg	Lys 25	Arg	Val	Pro	Gln	Arg 30	Gly	Arg
Lys	Ala	Pro 35		Pro	Gln	Leu	His 40	Gly	Asn	Ile	Asn	Asn 45	Leu	Tyr	Phe
Pro	Ile 50	Arg	Trp	Arg	Asp	Arg 55	Leu	His	Trp	Asp	Ser 60	Pro	Asn	Pro	Ala
Ala 65	Glu	Cys	Gln	Arg	Pro 70	Arg	Ser	Thr	Leu	Val 75	Ser	Arg	Lys	Pro	Gly 80
Pro	Gly	Arg	Ile	Thr 85	Trp	Asp	Glu	Leu	Ala 90	Ala	Ser	Gly	Leu	Pro 95	Ser
Cys	Asp	Ala	Ala 100	Val	Asn	Leu	Ala	Gly 105	Glu	Asn	Ile	Leu	Asn 110	Pro	Leu
Arg	Arg	Trp	Asn	Glu	Thr	Phe	Gln 120	Lys	Glu	Val	Leu	Gly 125	Ser	Arg	Leu
Glu	Thr 130	Thr	Gln	Leu	Leu	Ala 135	Lys	Ala	Ile	Thr	Lys 140	Ala	Pro	Gln	Pro
Pro 145	Lys	Ala	Trp	Val	Leu 150	Val	Thr	Gly	Val	Ala 155	Tyr	Tyr	Gln	Pro	Ser 160
Leu	Thr	Ala	Glu	Tyr 165	Asp	Glu	Asp	Ser	Pro 170	Gly	Gly	Asp	Phe	Asp 175	Phe

Phe	Ser	Asn	Leu 180	Val	. Thr	Lys	Trp	Glu 185		Ala	Ala	Arg	Leu 190		Gly
Asp	Ser	Thr 195	Arg	Gln	Val	Val	Val 200	Arg	Ser	Gly	Val	Val 205		Gly	Arg
Gly	Gly 210	Gly	Ala	Met	Gly	His 215	Met	Leu	Leu	Pro	Phe 220	Arg	Leu	Gly	Leu
Gly 225	Gly	Pro	Ile	Gly	Ser 230	Gly	His	Gln	Phe	Phe 235	Pro	Trp	Ile	His	Ile 240
Gly	Asp	Leu	Ala	Gly 245	Ile	Leu	Thr	His	Ala 250	Leu	Glu	Ala	Asn	His 255	Val
His	Gly	Val	Leu 260	Asn	Gly	Val	Ala	Pro 265	Ser	Ser	Ala	Thr	Asn 270	Ala	Glu
Phe	Ala	Gln 275	Thr	Phe	Gly	Ala	Ala 280	Leu	Gly	Arg	Arg	Ala 285	Phe	Ile	Pro
Leu	Pro 290	Ser	Ala	Val	Val	Gln 295	Ala	Val	Phe	Gly	Arg 300	Gln	Arg	Ala	Ile
Met 305	Leu	Leu	Glu	Gly	Gln 310	Lys	Val	Ile	Pro	Arg 315	Arg	Thr	Leu		Thr 320
Gly	Tyr	Gln	Tyr	Ser 325	Phe	Pro	Glu	Leu	Gly 330	Ala	Ala	Leu		Glu 335	Ile
Val	Ala									•					
<210 <211		_													
<211							•								
<213			apie	ns											
~ 2 2 A·															
<220: <221:		ייני		•											
<221.										-					
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<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (164)

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 <221> SITE
 <222> (220)
 <223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<222> (267)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 938
Cys Gln Glu Trp Val Pro Asp Arg Glu Ser Tyr Val Ser His Met Lys
                                                                                    10
Lys Ser His Gly Arg Thr Leu Lys Arg Tyr Pro Cys Arg Gln Xaa Glu
                           20
                                                                            25
Gln Ser Phe His Thr Pro Asn Ser Leu Arg Lys His Ile Arg Asn Asn
                                                                    40 .
His Asp Thr Val Lys Lys Phe Tyr Thr Cys Gly Tyr Cys Thr Glu Asp
            50 55
Ser Pro Ser Phe Pro Arg Pro Ser Leu Leu Glu Ser His Ile Ser Leu
                     70
  65 ·
                                                                                  . 75
Met His Gly Ile Arg Asn Pro Asp Leu Ser Gln Thr Ser Lys Val Lys
                                                                                     90
Pro Pro Gly Gly His Ser Pro Gln Val Asn His Leu Lys Arg Pro Val
               100 105 110
```

Ser	Gly	Val 115	Gly	Asp	Ala	Pro	Gly 120		Ser	Asr	Gly	7 Ala 125		· Val	. Ser
Ser	Thr 130	Lys	Arg	His	Lys	Ser 135		Phe	Gln	Cys	Ala 140		: Суз	Ser	Ph∈
Ala 145	Thr	Asp	Ser	Gly	Leu 150		Phe	Gln	Ser	His 155		Pro	Gln	His	Gln 160
Val	Gly	Gln	Xaa	His 165	Ser	Pro	Met	Ser	Pro 170		Trp	Phe	Val	Leu 175	
Leu	Cys	Gln	Leu 180	Pro	Gln	Pro	Pro	Pro 185		His	Cys	Pro	Gln 190		Glu
Arg	Pro	Gly 195	Gly	Gly	Gly	Gly	Arg 200			Gly		Thr 205		Met	Ala
Val	Glu 210	Val	Ala	Glu	Gln	Arg 215	Arg	Ala	Pro	Gly	Xaa 220		Cys	Pro	Trp
Arg 225	Leu	Glu	Arg	Met	Asp 230	Trp	Lys			Pro 235	Val	Ser	Xaa	Cys	Gln 240
Leu	Thr	Gln	Arg	Arg 245	Gly	Asp	Cys	Trp	Ala 250	Arg	Pro	Leu	Arg	Thr 255	Met
Val	Ala	Thr	Met 260	Ile	Thr		Asn	His 265	Arg	Xaa	Xaa	Arg	Thr 270	Arg	Thr
Ala	Thr	His 275	Суз	Pro	Leu	Arg	Cys 280	Asp	Arg	Arg	Leu	Cys 285	Ser	Val	His
Gly	Gln 290	Gly	Trp	Cys	Arg	Ser 295	Val	Phe	His	Leu	Pro 300	Суѕ	Gly	Pro	Trp
Lys 305	Ile	Lys	Gly	Ser	Ala 310	Pro	Ser	Val	Ser	Val 315	Thr	Gly	Cys	Thr	Leu 320
Glu															

<210> 939

<211> 151

<212> PRT

<213> Homo sapiens

<220>

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 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
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 <222> (44)
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<220>
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<222> (67)
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<222> (81)
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<223> Xaa equals any of the naturally occurring L-amino acids
Ala Ala Ser Xaa Gly Glu Gln Arg Glu Arg Ala Arg Leu Gln Thr Pro
      5
Thr Arg Pro His Ser Thr Ser Ala Arg Pro Arg Arg Gln Val Gln
                      25
Leu Leu Gln Leu Cys Gly Cys Ala Ala Lys Gly Xaa Ala His Gly Leu
Asp Val Thr Ser Pro Thr Val Ser Trp Leu Ala Cys Pro Cys Ala Arg
                      55
Pro Ser Xaa Ser Arg Gln Xaa Leu Gly Thr Ser Glu Glu Glu Pro Gly
      70 75
Xaa Asn Gly Lys Gly Gly Ile Gly Val His His Ser Leu Leu Leu Trp
               85
Ser Ser Thr Gly Gly Thr Xaa Met Glu Val Ser Cys Leu Thr Ser Leu
                             105
```

```
His Cys Thr Gly Pro Gly Met Pro Ile His Pro Leu Ala Glu Asp Thr
115 120 125
```

His Gln Val Ile Cys Glu Glu Thr Leu Gly Ser His His Leu Lys Ala 130 135 140

Arg Gly Ser Pro Ser His Arg 145 150

<210> 940

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 940

Arg Cys Gly Trp Ser Ser Arg Ser Arg Ser Arg Cys Ala Arg Arg 1 5 10 15

Cys Pro Pro Ser Pro Cys Pro Thr Pro Arg His Val Pro Ser Ser Arg

His Pro Glu Val Cys Gly Leu Arg Thr Asn Ser His Arg Cys Leu Phe 35 40 45

Arg Pro Gln Leu Gln Ala Met Pro Ala Ala Gly Gly Val Leu Tyr Gln
50 55 60

Pro Ser Gly Pro Ala Ser Phe Pro Ser Thr Phe Ser Pro Ala Gly Ser 65 70 75 80

Val Glu Gly Ser Pro Met His Gly Val Tyr Met Ser Gln Pro Val Pro 85 90 95

Ala Ala Gly Pro Tyr Pro Xaa 100

<210> 941

<211> 136

<212> PRT

<213> Homo sapiens

<220>

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 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids
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 Thr Ala Gly Arg Ser Asp Val Leu Pro Val Ala Gly Gly Glu Val Arg
 Ala Leu Gln Glu Gly Gly Cys Gly Asp Lys Met Lys Ile Phe Val Gly
              20
 Asn Val Asp Gly Ala Asp Thr Thr Pro Glu Glu Leu Ala Ala Leu Phe
Ala Pro Tyr Gly Thr Val Met Ser Cys Ala Val Met Lys Gln Phe Ala
Phe Val His Met Arg Glu Asn Ala Gly Ala Leu Arg Ala Ile Glu Ala
                                         75
Leu His Gly His Glu Leu Arg Pro Gly Arg Ala Leu Val Val Glu Met
Ser Arg Pro Arg Pro Leu Asn Thr Trp Lys Ile Phe Val Gly Asn Val
            100
                                105
Ser Ala Ala Cys Thr Ser Gln Glu Leu Arg Xaa Ser Ser Ser Ala Ala
                            120
Asp Ala Ser Ser Ser Val Thr Trp
   130
                     135
<210> 942
<211> 61
<212> PRT
<213> Homo sapiens
<400> 942
Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
                                    10
Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
             20
Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
```

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser

55

50

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<210> 943
<211> 580
 <212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 943
Gly Ala Gln Ala Gln Ala Ser Ala Arg Pro Leu Gln Ala Phe Gly Ala
Arg Ala Arg Leu Gly Tyr Gly Pro Gly Arg Arg Arg Pro Pro Ser Ala
Arg Cys Leu Ser Gly Thr Ala Asn Arg Arg Glu Arg Arg Arg Val Gly
                                        4.5
Leu Ser Ala Xaa Leu Gly Ala Gly Ala His Ala Arg Ala Pro Pro Gln
                        55
Ala Gly Ala Met Ala Ser Gly Ser Xaa Ala Glu Cys Leu Gln Glu
Thr Thr Cys Pro Val Cys Leu Gln Tyr Phe Ala Glu Pro Met Met Leu
          85
Asp Cys Gly His Asn Ile Cys Cys Ala Cys Leu Ala Arg Cys Trp Gly
Thr Ala Glu Thr Asn Val Ser Cys Pro Gln Cys Arg Glu Thr Phe Pro
                          120
Gln Arg His Met Arg Pro Asn Arg His Leu Ala Asn Val Thr Gln Leu
   130. .
                       135
Val Lys Gln Leu Arg Thr Glu Arg Pro Ser Gly Pro Gly Glu Met
Gly Val Cys Glu Lys His Arg Glu Pro Leu Lys Leu Tyr Cys Glu Glu
               165
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Asp	Gln	Met	Pro 180		Cys	Val	. Val	Cys 185		Arç	g Ser	Arç	190		s Ar
Gly	His	Ser 195		Leu	Pro	Leu	Glu 200		ı Ala	Val	Glu	Gly 205		. Lys	s Glu
Gln	11e 210	Gln	Asn	Gln	Leu	Asp 215		Leu	Lys	Arg	7 Val 220		Asp	Leu	ı Lys
Lys 225	Arg	Arg	Arg	Ala	Gln 230	Gly	Glu	Gln	Ala	Arg 235		Glu	Leu	Leu	Ser 240
Leu 	Thr	Gln	Met	Glu 245		Glu	Lys	Ile	Val 250		Glu	Phe	Glu	Gln 255	
Tyr	His	Ser	Leu 260	Lys	Glu	His	Glu	Tyr 265		Leu	Leu	Ala	Arg 270		Glu
Glu	Leu	Asp 275	Leu	Ala	Ile	Tyr	Asn 280	Ser	Ile	Asn	Gly	Ala 285	Ile	Thr	Gln
Phe	Ser 290	Cys	Asn	Ile	Ser	His 295	Leu	Ser	Ser	Leu	Ile 300	Ala	Gln	Leu	Glu
Glu 305	Lys	Gln	Gln	Gln	Pro 310	Thr	Arg	Glu	Leu	Leu 315	Gln	Asp	Ile	Gly	Asp 320
Thr	Leu	Ser	Arg	Ala 325	Glu	Arg	Ile	Arg	330	Pro	Glu	Pro	Trp	Ile 335	Thr
Pro	Pro	Asp	Leu 340	Gln	Glu	Lys	Ile	His 345	Ile	Phe	Ala	Gln	Lys 350	Cys	Leu
Phe	Leu	Thr 355	Glu	Ser	Leu	Lys	Gln 360	Phe	Thr	Glu	Lys	Met 365	Gln	Ser	Asp
Met	Glu 370	Lys	Ile	Gln	Glu	Leu 375	Arg	Glu	Ala	Gln	Leu 380	Tyr	Ser	Val	Asp
Val 385	Thr	Leu	Asp	Pro	Asp 390	Thr	Ala	Tyr	Pro	Ser 395	Leu	Ile	Leu	Ser	Asp 400
Asn	Leu	Arg	Gln	Val 405	Arg	Tyr	Ser	Tyr	Leu 410	Gln	Gln	Asp	Leu	Pro 415	Asp
Asn	Pro	Glu	Arg 420	Phe	Asn	Leu	Phe	Pro 425	Cys	Val	Leu	Gly	Ser 430	Pro	Cys
Phe		Ala 435	Gly	Arg	His	Tyr	Trp	Glu	Val	Glu		Gly	Asp	Lys	Ala

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Lys Trp Thr Ile Gly Val Cys Glu Asp Ser Val Cys Arg Lys Gly Gly
 Val Thr Ser Ala Pro Gln Asn Gly Phe Trp Ala Val Ser Leu Trp Tyr
                    470
                                       475
Gly Lys Glu Tyr Trp Ala Leu Thr Ser Pro Met Thr Ala Leu Pro Leu
Arg Thr Pro Leu Gln Arg Val Gly Ile Phe Leu Asp Tyr Asp Ala Gly
                               505
Glu Val Ser Phe Tyr Asn Val Thr Glu Arg Cys His Thr Phe Thr Phe
Ser His Ala Thr Phe Cys Gly Pro Val Arg Pro Tyr Phe Ser Leu Ser
                       535
Tyr Ser Gly Gly Lys Ser Ala Ala Pro Leu Ile Ile Cys Pro Met Ser
545
                   550
Gly Ile Asp Gly Phe Ser Gly His Val Gly Asn His Gly His Ser Met
               565 570
Glu Thr Ser Pro
   580
<210> 944
<211> 437
<212> PRT
<213> Homo sapiens
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<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (317)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 944
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Asp	Ala	Ser	Arg 20	Thr	Thr	Phe	Thr	Arg 25		Gly	Ser	Phe	Arg		. Thr
Thr	Ala	Thr 35	Glu	Gln	Ala	Glu	Arg	•	Glu	Ile	Met	Lys 45		Met	Gln
Asp	Ala 50		Lys	Ala	Glu	Thr 55		Lys	Ile	· Val	Val	_	Ser	Ser	Val
Ala 65	Pro	Gly	Xaa	Thr	Ala 70	Pro	Ser	Pro	Ser	Ser 75		Thr	Ser	Pro	Thr 80
Ser	Asp	Ala	Thr	Thr 85	Ser	Leu	Glu	Met	Asn 90		Pro	His	Ala	Ile 95	
Arg	Arg	His	Ala 100	Pro	Ile	Glu	Gln	Leu 105		Arg	Gln	Gly	Ser 110	Phe	Arg
Gly	Phe	Pro 115	Ala	Leu	Ser	Gln	Lys 120	Met	Ser	Pro	Phe	Lys 125	Arg	Gln	Leu
Ser	Leu 130	Arg	Ile	Asn	Glu	Leu 135	Pro	Ser	Thr	Met	Gln 140	Arg	Lys	Thr	Asp
Phe 145	Pro	Ile	Lys	Asn	Ala 150	Val	Pro	Glu	Val	Glu 155	Gly	Glu	Ala	Glu	Ser 160
Ile	Ser	Ser	Leu	Cys 165	Xaa	Gln	Ile	Thr	Asn 170	Ala	Phe	Ser	Thr	Pro 175	Glu
Asp	Pro	Phe	Ser 180	Ser	Ala	Pro	Met	Thr 185	Lys	Pro	Val	Thr	Val 190	Val	Ala
Pro	Gln	Ser 195	Pro	Thr	Phe	Gln	Gly 200	Thr	Glu	Trp	Gly	Gln 205	Ser	Ser	Gly
Ala	Ala 210	Ser	Pro	Gly	Leu	Phe 215	Gln	Ala	Gly	His	Arg 220	Arg	Thr	Pro	Ser
Glu 225	Ala	Asp	Arg	Trp	Leu 230	Glu	Glu	Val		Lys 235	Ser	Val	Arg	Ala	Gln 240
Gln	Pro	Gln	Ala	Ser 245	Ala	Ala	Pro	Leu	Gln 250	Pro	Val	Leu	Gln	Pro 255	Pro
Pro	Pro	Thr	Ala	Ile	Ser	Gln	Pro	Ala	Ser	Pro	Phe	Gln	Gly	Asn	Ala

Phe	Leu	Thr 275		Gln	Pro	Val	Pro 280	Val	Gly	Val	Val	Pro 285	Ala	Leu	Gln
Pro	Ala 290	Phe	Val	Pro	Ala	Gln 295		Tyr	Pro	Val	Ala 300	Asn	Gly	Met	Pro
Tyr 305	Pro	Ala	Pro	Asn	Val 310	Pro	Val	Val		Ile .315	Thr	Xaa	Ser	Gln	Met 320
Val	Ala	Asn	Val	Phe 325		Thr	Ala	Gly	His 330	Pro	Gln	Ala	Ala	His 335	Pro
His	Gln	Ser	Pro 340	Ser	Leu	Val	Arg	Gln 345		Thr	Phe	Pro	His 350	Туг	Glu
Ala	Ser	Ser 355		Thr			Pro .360		Phe	Lys	Pro	Pro 365		Gln	His
Leu	Asn 370	Gly	Ser	Ala	Ala	Phe 375	Asn	Gly	Val	Asp	Asp 380		Arg	Leu	Ala
Ser 385	Ala	Asp	Arg	His	Thr 390	Glu	Val	Pro	Thr	Gly 395	Thr	Cys	Pro	Val	Asp
Pro	Phe	Glu	Ala	Gln 405		Ala	Ala	Leu	Glu 410	Asn	Lys		Lys	Gln 415	Arg
Thr	Asn	Pro	Ser 420	Pro	Thr	Asn	Pro	Phe 425	Ser	Ser	Asp	Leu	Gln 430	Lys	Thr
Phe	Glu	Ile 435	Glu	Leu											
<211)> 94 .> 16 !> PR	0													
	> Ho		apie	ns											
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	> (1 > Xa	•	uals	any	of	the	natu	rall	λ ˙όc	curr	ing	L-am	ino	acid	s
	> 94 Gly		Met	Arg 5	Arg	Leu	Leu	Ile	Pro. 10	Leu	Ala	Leu.	Trp	Leu 15	Gly
Ala	Val	Gly	Val _	Gly	Val .	Ala	Glu I	Leu 25	Thr	Glu	Ala	Gln .	Arg 30	Arg	Gly

<210> 946

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 946

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Thr Phe Leu Ser Ser Ala Thr Thr Ala Leu Ser Met Gln Asn Asn Ser 35 40 45

Val Phe Gly Asp Leu Lys Ser Asp Glu Met Glu Leu Leu Tyr Ser Ala

60 50 55 Tyr Gly Asp Glu Thr Gly Val Gln Cys Ala Leu Ser Leu Gln Glu Phe 70 75 Val Lys Asp Ala Gly Ser Tyr Ser Lys Lys Val Val Asp Asp Leu Leu 85 90 Asp Gln Ile Thr Gly Gly Asp His Ser Arg Thr Leu Phe Gln Leu Lys 100 105 110 Gln Arg Arg Asn Val Pro Met Lys Pro Pro Asp Glu Ala Lys Val Gly 115 120 Asp Thr Leu Gly Asp Ser Ser Ser Ser Val Leu Glu Phe Met Ser Met 135 Lys Ser Tyr Pro Asp Val Ser Val Asp Ile Ser Met Leu Ser Ser Leu 150 155 Gly Lys Val Lys Lys Glu Leu Asp Pro Asp Asp Ser His Leu Asn Leu 165 170 175 Asp Glu Thr Thr Lys Leu Leu Gln Asp Leu His Glu Ala Gln Ala Asp 185 Ala Ala Leu Gly Xaa Arg Pro Thr Ser Ala Pro Cys Pro Thr Pro 195 200 205 Pro Arg Gly Thr Ser Thr Thr Trp Glu Ala Leu Leu Ala 210 . 215 <210> 947 <211> 316 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (293) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (312) <223> Xaa equals any of the naturally occurring L-amino acids Glu Gln Tyr Val Cys Ala Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys

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Lys	Met	Ala	Thr 20		Lys	Ile	Ser	Val 25	Ile	Thr	Ile	Phe	Gly 30		Val
Asn	Asn	Ser 35		Met	Lys	Ile	Asp 40	His	Phe	Gln	Leu	Asp 45		Glu	Lys
Pro	Met 50	Arg	Val	Val	Asp	Asp 55	Glu	Asp	Leu	Val	Asp 6		Arg	Leu	Ile
Ser 65	Glu	Leu	Arg	Lyś	Glu 70	Tyr	Gly	Met	Thr	Tyr 75	Asn	Asp	Phe	Phe	Met 80
Val	Leu	Thr	Asp	Val 85	Asp	Leu	Arg	Val	Lys 90	Gln	Туr	Tyr	Glu	Val 95	
Ile	Thr	Met	Lys 100	Ser	Val	Phe	Asp	Leu 105	Ile	Asp	Thr	Phe	Gln 110	Ser	Arg
Ile	Lys	Asp 115	Met	Glu	Lys	Gln	Lys 120	Lys	Glu	Gly	Ile	Val 125	Cys	Lys	Glu
	Lys 130	Lys	Gln	Ser	Leu	Glu 135	Asn	Phe	Leu	Ser	Arg 140	Phe	Arg	Trp	Arg
Arg 145	Arg	Leu	Leu	Val	Ile 150	Ser	Ala	Pro	Asn	Asp 155	Glu	Asp	Trp	Alą	Tyr 160
Ser	Gln	Gln	Leu	Ser 165	Ala	Leu	Ser	Gly	Gln- 170	Ala	Cys	Asn	Phe	Gly 175	•
Arg	His	Ile	Thr 180	Ile	Leu	Lys	Leu	Leu 185	Gly	Val	Gly	Glu	Glu 190	Val	Gly
Gly	Val	Leu 195	Glu	Leu	Phe	Pro	11e 200	Asn	Gly	Ser	Ser	Val 205	Val	Glu	Arg
Glu	Asp 210	Val	Pro	Ala	His	Leu 215	Val	Lys	Asp	Ile	Arg 220	Asn	Tyr	Phe	Gln
Val 225	Ser	Pro	Glu	Tyr	Phe 230	Ser	Met	Leu	Leu	Val 235	Gly	Lys	Asp	Gly	Asn 240
Val	Lys	Ser	Trp	Tyr 245	Pro	Ser	Pro	Met	Trp 250	Ser	Met	Val	Ile	Val 255	Tyr
Asp	Leu	Ile	Asp 260	Ser	Met	Gln	Leu	Arg 265	Arg	Gln	Glu	Met	Ala 270	Ile	Gln
Gln	Ser	Leu	Gly	Met	Arg	Cys	Pro	Glu	Asp	Glu	Tyr	Ala	Gly	Tyr	Gly

		275	,				280)				285	5		
Tyr	His 290		Туг	. Xaa	. Gln	Gly 295		Glr	ASĮ	Gly	туг 300		. Asp	Asp	туr
Arg 305		His	Glu	Ser	Tyr 310		: Xaa	Gly	туг	Pro 315	_				
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		-	Ala	Ser 5	Ala	His	Ala	Ser	Gly 10		Gln	Cys	Gln	Asp 15	Ser
Lys	Asp	Ser	Asn 20	His	Leu	Pro	Lys	Met 25	Ser	Leu	Ser	Ala	Phe 30	Thr	Leu
Phe	Leu	Ala 35	Leu	Ile	Gly	Gly	Thr 40	Ser	Gly	Gln	туг	Tyr 45	Asp	Tyr	Asp
Phe	Pro 50	Leu	Ser	Ile	Tyr	Gly 55	Gln	Ser	Ser	Pro	Asn 60	Cys	Ala	Pro	Glu
Су з 65	Asn	Cys	Pro	Glu	Ser 70	Tyr	Pro	Ser	Ala	Met 75	Tyr	Cys	Asp	Glu	Leu 80
Lys	Leu	Lys	Ser	Val 85	Pro	Met	Val	Pro	Pro 90	Gly	Ile	Lys	Tyr	Leu 95	Tyr
Leu	Arg	Asn	Asn 100	Gln	Ile	Asp	His	Ile 105	Asp	Glu	Lys	Ala	Phe 110	Glu	Asn
Val	Thr	Asp 115	Leu	Gln	Trp	Leu	Ile 120	Leu	Asp	His	Asn	Leu 125	Leu	Glu	Asn
Ser	Lys 130	Ile	Lys	Gly	Arg	Val 135	Phe	Ser	Lys	Leu	Lys 140	Gln	Leu	Lys	Lys
Leu	His	Ile	Asn	His	Asn	Asn	Leu	Thr	Glu	Ser	Val	Gly	Pro	Leu	Pro
145	•			٠.	150	٠٠,			•	.155		-			160
Lys	Ser														

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                                     25
    Lys Trp Cys Thr Pro Arg Thr Asn Asn Ile Glu Leu His Tyr Cys Thr
             35
                                 40-
    Gly Ala Tyr Arg Ile Ser Pro Val Asp Val Asn Ser Arg Pro Ser Ser
                             55
    Cys Leu Thr Asn Phe Leu Leu Asn Gly Arg Ser Val Leu Leu Glu Gln
     65
    Pro Arg Lys Ser Gly Ser Lys Val Ile Ser His Met Leu Ser Ser His
    Gly Gly Glu Ile Phe Leu His Val Leu Ser Ser Ser Arg Ser Ile Leu
                                   105
    Glu Xaa Pro Pro Ser Ile Ser Glu Gly Cys Gly Gly Arg Val Thr Asp
            115
    Tyr Arg Ile Thr Asp Phe Gly Glu Phe Met Arg Glu Asn Arg Leu Thr
    Pro Phe Leu Asp Pro Arg Tyr Lys Ile Asp Gly Ser Leu Glu Val Pro
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                        150
                                           155
Leu Glu Arg Ala Lys Asp Gln Leu Glu Lys His Thr Arg Tyr Trp Pro
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    Met Asp His Phe Thr Asn His His Phe
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Leu Gly Cys Thr Pro Leu Leu Pro Asn Asp Ser Gly His Pro Ser Glu
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Leu Gly Gly Thr Arg Arg Ala Gly Asn Gly Ala Leu Gly Gly Pro Lys
35 40 45
Ala His Arg Lys Leu Gln Thr His Pro Ser Leu Ala Ser Gln Gly Ser
                 55 60
Lys Lys Ser Lys Ser Ser Ser Lys Ser Thr Thr Ser Gln Ile Pro Leu
65 70 75 75
Gln Ala Gln Glu Asp Cys Cys Val His Cys Ile Leu Ser Cys Leu Phe
                 90 95
           85
Cys Glu Phe Leu Thr Leu Cys Asn Ile Val Leu Asp Cys Ala Thr Cys
   100
Gly Ser Cys Ser Ser Glu Asp Ser Cys Leu Cys Cys Cys Cys Gly
     115
              120 125
Ser Gly Glu Cys Ala Asp Cys Asp Leu Pro Cys Asp Leu Asp Cys Gly
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145 150 155 160.
Xaa Cys Cys Gly Leu Cys Phe Ser Ser
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Gln	Val	Cys	Leu 20	Leu	Ser	Ala	Met	Pro 25	Leu	Pro	Val	Ala	Leu 30	Gln	Thr
Arg	Leu	Ala 35	Lys	Arg	Gly	Ile	Leu 40	Lys	His	Leu	Glu	Pro 45	Glu	Pro	Glu
Glu	Glu 50	Ile	Ile	Ala	Glu	Asp 55	Tyr	Asp	Asp	Asp	Pro 60	Val	Asp	Tyr	Glu
Ala 65	Thr	Arg	Leu	Glu	Gly 70	Leu	Pro	Pro	Ser	Trp 75	Tyr	Lys	Val	Phe	Asp 80
Pro	Ser	Cys	Gly	Leu 85	Pro	Tyr	Tyr	Trp	Asn 90	Ala	Asp	Thr	Asp	Leu 95	Val
Ser	Trp	Leu	Ser 100	Pro	His	Asp		Asn 105	Ser	Val	Val	Thr	Lys 110	Ser	Ala
Lys	Lys	Leu 115	Arg	Ser	Ser	Asn	Ala 120	Asp	Ala	Glu	Glu	Lys 125	Leu	Asp	Arg
Ser	His 130	Asp	Lys	Ser	Asp	Arg 135	Gly	His	Asp	Lys	Ser 140	Asp	Arg	Ser	His
Glu 145	Lys	Leu	Asp	Arg	Gly. 150	His	Asp	Lys	Ser	Asp 155	Arg	Gly	His	Asp	Lys 160
Xaa	Asp	Arg	Asp	Arg 165	Glu	Arg	Gly	Tyr	Asp 170	Lys	Val	Asp	Arg	Glu 175	Arg
Glu	Arg	Asp	Arg 180	Glu	Arg	Asp	Arg	Asp 185	Arg	Gly	Tyr	Asp	Lys 190	Ala	Asp
Arg	Glu	Glu 195	Gly	Lys	Glu	Arg	Arg 200	His	His	Arg	Arg	Glu 205	Glu	Leu	Ala
Pro	Tyr 210	Pro	Lys	Ser	Lys	Lys 215	Ala	Val	Ser	Arg	Lys 220	Asp	Glu	Glu	Leu

Asp Pro Met Asp Pro Ser Ser Tyr Ser Xaa Arg Pro Arg Gly Thr Trp

225					230					235	•				240
Ser	Thr	Gly	Leu	Pro 245		Arg	Asn	Glu	Ala 250		Thr	Gly	Ala	Asp 255	
Thr	Ala	Ala	Gly 260		Leu	Phe	Gln	Gln 265		Pro	Туг	Pro	Ser 270		Gly
Ala	Val	Leu 275		Ala	Asn	Ala	Glu 280	Ala	Ser	Arg	Thr	Lys 285		Gln	Asp
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Gly	Leu	Ser	Glu 20	Asp	Gly	Pro	Gly	Arg 25	Asp	His	Gly	Gly	Gly 30	Ser	Arg
Gly	Gly	Arg 35	Gly	Gly	Ala	Ala	Gly 40	Gly	Arg	Gly	Gly	Cys 45	Gly	Pro	Gln
Gly	Ala 50	Val	Gly	Gly	Gly	Met 55	Ala	Arg	Ala	Ser	Ser 60	Gly	Asn	Gly	Ser
Glu 65	Glu	Ala	Trp	Gly	Ala 70	Leu	Arg	Ala	Pro	Gln 75	Gln	Gln	Leu	Arg	Glu 80
Leu	Cys	Pro	Gly	Val 85	Asn	Asn	Gln	Pro	Tyr 90	Leu	Cys	Glu	Ser	Gly 95	His
Cys	Cys	Gly	Glu 100	Thr	Gly		Cys	105	Tyr	Tyr	Tyr		110	Trp	Trp
Phe	Trp	Leu 115	Leu	Trp	Thr		Leu 120		Leu	Phe	Ser	Cys 125		Cys	Ala
	Arg		Arg		Ala		Leu	Arg	Leu		Gln		Gln	Arg	Gln

Arg Glu Ile Asn Leu Leu Ala Tyr His Gly Ala Cys His Gly Ala Gly

145					150					155					160
Pro	Phe	Pro	Thr	Gly 165	Ser	Leu	Leu	Asp	Leu 170		Phe	Leu	Ser	Thr 175	Phe
Lys	Pro	Pro	Ala 180	Tyr	Glu	Asp	Val	Val 185	His	Arg	Pro	Gly	Thr 190		Pro
Pro	Pro	туr 195	Thr	Val	Ala	Pro	Gly 200	Arg	Pro	Leu	Thr	Ala 205		Ser	Glu
Gln	Thr 210	Cys	Cys	Ser	Ser	Ser 215	Ser	Ser	Cys	Pro	Ala 220	His	Phe	Glu	Gly
Thr 225	Asn	Val	Glu	Gly	Val 230	Ser	Ser	His	Gļn	Ser 235	Ala	Pro	Pro	His	Gln 240
Glu	Gly	Glu	Pro	Gly 245	Ala	Gly	Val	Thr	Pro 250	Ala	Ser	Thr	Pro	Pro 255	Ser
Cys	Arg	Tyr	Arg 260	Arg	Leu	Thr	Gly	Asp 265	Ser	Gly	Ile	Glu	Leu 270	Cys	Pro
Cys	Pro	Ala 275	Ser	Gly	Glu	Gly	Glu 280	Pro	Val	Lys	Glu	Val 285	Arg	Val	Ser
Ala	Thr 290	Leu	Pro	Asp	Leu	Glu 295	Asp	Tyr	Ser	Pro	Cys 300	Ala	Leu	Pro	Pro
Glu 305	Ser	Val	Pro	Gln	Ile 310	Phe	Pro	Met	Gly	Leu 315	Ser	Ser	Ser	Glu	Gly 320.
Asp	Ile	Pro													
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Arg	Tyr	Lys	Met 20	Pro	Arg	Leu	Ile	Ala 25	Lys	Val	Glu	Gly	Lys 30	Gly	Asn
Gly	Ile	Lys 35	Thr	Val	Ile	Val	Asn 40	Met	Val	Asp	Val	Ala 45	Lys	Ala	Leu

Asn	Arg 50) Pro) Prc) Thr	туг	Pro 55		. Lys	туі	r Phe	e Gly 60		5 Glu	ı Let	Gly
Ala 65		Thr	Gln) Phe	Asp 70		Lys	. Asn	Asp	Arg 75		Ile	e Val	l Asn	Gly 80
Ser	His	Glu	ı Ala	Asn 85		Leu	Gln	Asp	Met 90		ı Asp	Gly	Phe	95	_
Lys	Phe	Val	Leu 100		Pro	Glu	Cys	Glu 105	Asn	Pro	Glu	Thr	Asp		His
Val	Asn	Pro 115		Lys	Gln	Thr	Ile 120		Asn	Ser	Cys	Lys 125		Суз	Gly
Tyr	Arg 130	Gly	Met	Leu	Asp	Thr 135	His	His	Lys	Leu	Cys 140	Thr	Phe	Ile	Leu
Lys 145	Asn	Pro	Pro	Glu	Asn 150	Ser	Asp	Ser	Gly	Thr 155		Lys	Lys	Glu	Lys 160
Glu	Lys	Lys	Asn	Arg 165	Lys	Gly	Lys	Asp	Lys 170	Glu	Asn	Gly	Ser	Val 175	Ser
Ser	Ser	Glu	Thr 180	Pro	Pro	Pro	Pro	Pro 185	Pro	Pro	Asn	Glu	Ile 190	Asn	Pro
Pro	Pro	His 195	Thr	Met :	Glu	Glu	Glu 200	Glu	Asp	Asp	Asp	Trp 205	Gly	Glu	Asp
Thr	Thr 210	Glu	Glu	Ala	Gln	Arg 215	Arg	Arg	Met	Asp	Glu 220	Ile	Ser	Asp	His
Ala 225	Lys	Val	Leu	Thr	Leu 230	Ser	Asp	Asp	Lėu	Glu 235	Arg	Thr	Ile	Glu	Glu 240
Arg	Val	Asn	Ile	Leu 245	Phe	Asp	Phe	Val	Lys 250	Lys	Lys	Lys	Glu	Glu 255	Gly
Val	Ile	Asp	Ser 260	Ser	Asp	Lys	Glu ,	Ile 265	Val	Ala	Glu	Ala	Glu 270	Arg	Leu
Asp		Lys 275	Ala	Met	Gly		Leu 280	Val	Leu	Thr	Glu	Val 285	Leu	Phe	Asn
	Lys 290	Ile	Arg	Glu		Ile 295	Lys	Lys	Tyr	Arg	Arg 300	His	Phe	Leu	Arg
Phe (Cys	His .	Asn .		Lys : 310	Lys .	Ala	Gln .		Туг 315	Leu	Leu	His		Leu 320

Glu Cys Val Val Ala Met His Gln Ala Gln Leu Ile Ser Lys Ile Pro 335

His Ile Leu Lys Glu Met Tyr Asp Ala Asp Leu Leu Glu Glu Glu Val 340

Ile Ile Ser Trp Ser Glu Lys Ala Ser Lys Lys Tyr Val Ser Lys Glu 365

Leu Ala Lys Glu Ile Arg Val 375

Lys Ala Glu Pro Phe Ile Lys Trp Leu 370

Glu Asn Ile Glu Val Yal Tyr Ser Lys Ala Glu Glu Glu Glu Asp 400

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Glu Thr Val Lys Ser Asp Asn Lys Asp Asp Asp Ile Asp Ile Asp Ala 430

Ile

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<400> 954

Gly Tyr Gln Ile Gly Met Ala Leu Ala Ser Gly Pro Ala Arg Arg Ala 1 5 10 15

Leu Ala Gly Ser Gly Gln Leu Gly Leu Gly Gly Phe Gly Ala Pro Arg 20 25 30

Arg Gly Ala Tyr Glu Trp Gly Val Arg Ser Thr Arg Lys Ser Glu Pro 35 40 45

Pro Pro Leu Asp Arg Val Tyr Glu Ile Pro Gly Leu Glu Pro Ile Thr

Phe Ala Gly Lys Met His Phe Val Pro Trp Leu Ala Arg Pro Ile Phe 65 70 75 80

Pro Pro Trp Asp Arg Gly Tyr Lys Asp Pro Arg Phe Tyr Arg Ser Pro 85 90 95

Pro	Leu	His	100		Pro	Leu	Tyr	Lys 105		Gln	Ala	Cys	110		e Phe
His	His	Arg		Arg	Leu	Leu	Glu 120		Val	Lys	Gln	125		Trp) Leu
Thr	Lys 130		Lys	Leu	Ile	Glu 135		Leu	Pro	Glu	Lys 140		Leu	Ser	Leu
Val 145		Asp	Pro	Arg	Asn 150	His	Ile	Glu		Gln 155		Glu	Cys	Val	Leu 160
Asn	Val	Ile	Ser	His 165	Ala	Arg	Leu	Trp	Gln 170		Thr	Glu	Glu	Ile 175	
Lys	Arg	Glu		Tyr	Cys	Pro	Val	Ile 185	Val	Asp	Asn	Leu	Ile 190	Gln	
Cys	Lys	Ser 195	Gln	Ile	Leu	Lys									Cys
Val	Gln 210	Asn	Ser	Thr	Phe	Ser 215	Ala	Thr	Trp	Asn	Arg 220	Glu	Ser	Leu	Leu
Leu 225	Gln	Val	Arg	Gly	Ser 230		Gly	Ala	Arg	Leu 235	Ser	Thr	Lys	Asp	Pro 240
Leu	Pro	Thr	Ile	Ala 245	Ser	Arg	Glu	Glu	Ile 250	Glu	Ala		Lys 	Asn 255	His
Val	Leu	Glu	Thr 260	Phe	Tyr	Pro	Ile	Ser 265	Pro	Ilė	Ile	Asp	Leu 270	His	Gļu
Суѕ	Asn	Ile 275	Tyr	Asp	Val	Lys	Asn 280	Asp	Thr	Gly	Phe	Gln 285	Glu	Gly	Tyr
Pro	Туг 290	Pro	Tyr	Pro	His	Thr 295	Leu	Tyr	Leu	Leu	Asp 300	Lys	Ala	Asn	Leu
Arg 305	Pro	His			Gln -3:10			Gln	Leu	Arg 315	Ala	Lys	Met	Ile	Leu 320
Phe	Ala	Phe	Gly	Ser 325	Ala	Leu	Ala	Gln	Ala 330	Arg	Leu	Leu		Gly 335	Asn
Asp	Ala	Lys	Val 340	Leu	Glu		Pro	Val 345	Val	Val	Gln	Ser	Val 350	Gly	Thr
Asp					His				Phe	Gln		Asn 365	Thr	Thr	Asp

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Leu Asp Ser Asn Glu Gly Val Lys Asn Leu Ala Trp Val Asp Ser Asp
                         375
Gln Leu Leu Tyr Gln His Phe Trp Cys Leu Pro Val Ile Lys Lys Arg
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 Val Val Val Glu Pro Val Gly Pro Val Gly Phe Lys Pro Glu Thr Phe
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Arg Lys Phe Leu Ala Leu Tyr Leu His Gly Ala Ala
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Asp Arg Met Leu Val Leu Gly Asp Leu His Ile Pro His Arg
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                                 25
Cys Asn Ser Leu Pro Ala Lys Phe Lys Lys Leu Leu Val Pro Gly Lys
Ile Gln His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr
Asp Tyr Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp
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Phe Asp Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly

	85	90	95
Gln Phe Lys Ile		Ile His Gly His Gln Va	l Ile Pro Trp Gly
Asp Met Ala Ser 115	Leu Ala	Leu Leu Gln Arg Gln Pho	e Asp Val Asp Ile 125
Leu Ile Xaa Gly 130	His Thr	His Lys Phe Glu Ala Xad 135 140	
Lys Phe Tyr Ile 145	Asn Pro 150	Gly Ser Ala Thr Gly Ala 155	a Tyr Asn Ala Leu 160
Glu Thr Asn Ile	Ile Xaa 165	Ser Leu Cys	
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His	Lys	Ser 35		Ala	Val	Ala	Ser 40	Leu	Leu	Ser	Lys	Ala 45	Glu	Arg	Ala
Thr	Glu 50	Leu	Ala	Ala	Glu	Gly 55	Gln	Leu	Thr	Leu	Gln 60	Gln	Phe	Ala	Glr
Ser 65	Thr	Glu	Met	Leu	Lys 70	Arg	Val	Val	Gln	Glu 75	His	Leu	Pro	Leu	Met 80
Ser	Glu	Ala	Gly	Ala 85	Gly	Leu	Pro	Asp	Met 90	Glu	Ala	Val	Ala	Gly 95	Ala
Glu	Ala	Leu	Asn 100	Gly	Gln	Ser	Asp	Phe 105	Pro	Tyr	Leu	Gly	Ala 110	Phe	Pro
Ile	Asn	Pro 115	Gly	Leu	Phe	Ile	Met 120		Pro	Ala	Gly	Val 125	Phe	Leu	Ala
Glu	Ser 130	Ala	Leu	His	Met	Ala 135	Gly	Leu	Ala	Glu	Tyr 140	Pro	Met	Gln	Gly
Glu 145	Leu	Ala	Ser	Ala	Ile 150	Ser	Ser	Gly	Lys	Lys 155	Lys	Arg	Lys	Arg	Cys 160
Gly	Met	Cys	Ala	Pro 165	Cys	Arg	Arg	Arg	Ile 170	Asn	Cys	Glu	Gln	Cys 175	Ser
Ser	Cys	Arg	Asn 180	Arg	Lys	Thr	Gly	His 185	Gln	Ile	Cys	Lys	Phe 190	Arg	Lys
Cys	Glu	Glu 195	Leu	Lys	Lys	Lys	Pro 200	Ser	Ala	Ala	Leu	Glu 205	Lys	Val	Met
Leu	Pro	Thr	Gly	Ala	Ala	Phe	Arg	Trp	Phe	Gln					

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210

<220>

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	J		quar	3 an	y OI	Cite	nac	urar	Ly C	ccur	11119	10-a	IIII IIIO	acı	us
<22	_ <0							-			:				
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	2> (_							_	•		_
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Leu	Pro	Gln	Asn	Ala	Val	Leu	Glu	Ala	Asp	Phe	Ala	Lys	Arg	Gly	Tyr
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_	_										_ ;	•			
Lys	Leu	Pro		Xaa	Arg	Lys	Thr			Thr	Ile	Ala	Gly	Val	Val
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Tyr	Lys	Asp	Gly	Ile	Val	Leu	Gly	Ala	Asp	Thr	Arg	Ala	Thr	Glu	Gly
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Met		Val	Ala	Asp	Lys			Ser	Lys	Ile		Phe	Ile	Ser	Pro
	50					55					60				
Asn	Ile	Tyr	Cys	Cys	Gly	Ala	Gly	Thr.	Xaa	Ala	Asp	Thr	Asp	Met	Thr
65		_	_	-	70	,				75	_		-		80
Thr	Gln	Leu	Ile		Ser	Asn	Leu	Glu		His	Ser	Leu	Ser		_
				85	•				90					95	
Arg	Leu	Pro	Arg	Val	Val	Thr	Ala	Asn	Arg	Met	Leu	Lys	Gln	Met	Leu
_		•	100					105				•	110		•
															•
Phe	Arg		Gln	Gly	Tyr	Ile		Ala	Ala	Leu	Val		Gly	Gly	Val
		115					120					125	•		
Asp	Val	Thr	Gly	Pro	His	Leu	Tyr	Ser	Ile	Tyr	Pro	His	Gly	Ser	Thr
•						135	-			•	140				
Asp 145	Lys	Leu	Pro	Tyr		Thr	Met	Gly	Ser		Ser	Leu	Ala	Ala	
145					150				•	155					160
Ala	Val	Phe	Glu	Asp	Lys	Phe	Arg	Pro	Asp	Met	Glu	Glu	Glu	Glu	Ala
			•	165	_		_		170	,			•	175	
													•		
Lys	Asn	Leu			Glu	Ala	Ile		Ala	Gly	Ile	Phe	Asn	Asp	Leu
	•		180					185					190	*	
Gly	Ser	Glv	Ser	Asn	Ile	Asp	Leu	Cys	Val	Ile	Ser	Lvs	Asn	Lvs	Lev
•		195					200	•				205			
															٠.
Asp	Phe	Leu	Arg	Pro	Tyr	Thr	Val	Pro	Asn	Lys	Lys	Gly	Thr	Arg	Leu

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Gly Arg Tyr Arg Cys Glu Lys Gly Thr Thr Ala Val Leu Thr Glu Lys 225 230 235
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Ile Thr Pro Leu Glu Ile Glu Val Leu Glu Glu Thr Val Gln Thr Met 245 250 255

Asp Thr Ser

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<210> 959
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<211> 75

<212> PRT

<213> Homo sapiens

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 959

Phe Trp Ser Ala Ala Lys Phe Asp Phe Thr Ser His Thr Pro Phe Leu
1 5 10 15

Pro Leu Glu Met Gln Phe Arg Gln Arg Pro Cys Gly Glu Ser Cys Asn 20 25 30

Ile Lys Phe Xaa Phe Arg Arg Ser Xaa Pro Gln Thr Ser Glu Pro Leu 35 40 45

Ala Val Leu Pro Xaa Asn Lys Asn Glu Leu Glu Lys Lys Val Ala Gln
50 55 60

Leu Gln Arg Ser Lys Ser Ser Tyr Phe Pro Thr
65 70 75

<210> 960

<211> 128

<212> PRT

<213> Homo sapiens

<400> 960

Gln Ser Arg Gly Leu Arg Leu Leu Gly Pro Gly Asp Gly Ala Gly Met
1 5 10 15

Thr Pro Gly Val Val His Ala Ser Pro Pro Gln Ser Gln Arg Val Pro
20 25 30

Arg Gln Ala Pro Cys Glu Trp Ala Ile Arg Asn Ile Gly Gln Lys Pro
35 40 45

Lys Glu Pro Asn Cys His Asn Cys Gly Thr His Ile Gly Leu Arg Ser 50 60.

Lys Thr Leu Arg Gly Thr Pro Asn Tyr Leu Pro Ile Arg Gln Asp Thr 65 70 75 80

His Pro Pro Ser Val Ile Phe Cys Leu Ala Gly Val Gly Val Pro Gly 85 90 95

Gly Thr Cys Arg Pro Ala Pro Cys Val Pro Arg Phe Ala Ala Leu Pro 100 105 110

Trp Ala Thr Asn His Pro Gly Pro Gly Cys Leu Ser Asp Leu Arg Ala 115 120 125

<210> 961

<211> 564

<212> PRT

<213> Homo sapiens

<400> 961

Lys Met Lys Ser Val Lys Ile Ala Phe Ala Val Thr Leu Glu Thr Val

Leu Ala Gly His Glu Asn Trp Val Asn Ala Val His Trp Gln Pro Val 20 25 30

Phe Tyr Lys Asp Gly Val Leu Gln Gln Pro Val Arg Leu Leu Ser Ala 35 40 45

Ser Met Asp Lys Thr Met Ile Leu Trp Ala Pro Asp Glu Glu Ser Gly 50 55 60

Val 65	Trp	Leu	Glu	Gln	Val 70	Arg	Val	Gly	Glu	Val 75	Gly	Gly	Asn	Thr	Leu 80
Gly	Phe	туг	Asp	Cys 85	Gln	Phe	Asn	Glu	Asp 90	Gly	Ser	Met	Ile	Ile 95	Ala
His	Ala	Phe	His 100	Gly	Ala	Leu	His	Leu 105	Trp	Lys	Gln	Asn	Thr 110	Val	Asn
Pro	Arg	Glu 115	Trp	Thr	Pro	Glu	11e 120	Val	Ile	Ser	Gly	His 125	Phe	Asp	Gly
Val	Gln 130	Asp	Leu	Val	Trp	Asp 135	Pro	Glu	Gly	Glu	Phe 140	Ile	Ile	Thr	Val
Gly 145	Thr	Asp	Gln	Thr	Thr 150	Arg	Leu	Phe	Ala	Pro 155	Trp	Lys	Arg	Lys	Asp 160
Gln	Ser	Gln	Val	Thr 165	Trp	His	Glu	Ile	Ala 170	Arg	Pro	Gln.	Ile	His 175	Gly
Tyr	Asp	Leu	Lys 180	Cys	Leu	Ala	Met	11e 185	Asn	Arg	Phe	Gln	Phe 190	Val	Ser
Gly	Ala	Asp 195	Glu	Lys	Val	Leu	Arg 200	Val	Phe	Ser	Ala	Pro 205	Arg	Asn	Phe
Val	Glu 210	Asn	Phe	Cys	Ala	11e 215	Thr	Gly	Gln	Ser	Leu 220	Asn	His	Val	Leu
Cys 225	Asn	Gln	Asp	Ser	Asp 230	Leu	Pro	Glu	Gly	Ala 235	Thr	val	Pro	Ala	Leu 240
_		Ser		245					250					255	
		Glu	260					265					270		
Val	Ala	Phe 275	Gln	Pro	Ser	Ile	Leu 280	Thr	Glų	Pro	Pro	Thr 285	Glu	Asp	His
	290	Gln				295					300				
305	•	Glu			310			•		315		•			320.
Ala	Ser	Ala		Lys 325	Ala	Ala	Lys		Glu 330	His	Ala	Ala	Ile	11e 335	Leu

Trp	Asr	Thr	Thr 340		Trp	Lys	Gln	Val 345		Asn	Leu	val	. Phe		s Se
Leu	Thr	Val 355		Gln	Met	Ala	360		Pro	Asn	Glu	1 Lys 365		: Leu	Let
Ala	Val 370		Arg	Asp	Arg	Thr 375	Trp	Ser	Leu	Trp	Lys 380		Gln	Asp	Thi
385			•		390		Val	•		395					400
				405			Arg		410					415	
	•		420				Thr	425					430		
		435	÷	ens			Thr 440					445			
	450					455	Asp				460			•	
465					470		Pro	·* ,	. '	475			-		480
		•		485			Cys		490					495	
			500				Trp	505					510		
		515					11e 520					525	-		
	530		:			53 5	Glu	-	•	•	540				
545	-			Gly	Glu 550	Asp	His	Thr	Val	Lys 555	Ile	His	Arg	Val	Asn 560
Lys	Cys	Ala	Leu										-		

<210> 962 <211> 43

<212> PRT

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<213> Homo sapiens
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<400> 962

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His 1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu 20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe 35 40

<210> 963

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963

Glu Ser Arg Val Asp Pro Arg Val Arg Glu Arg Ser Ala Arg Thr Ala 1 5 10 15

Gly Ala Thr Val Gly Pro Ala Ala Val Met Ser Val Leu Arg Pro Leu 20 25 30

Asp Lys Leu Pro Gly Leu Asn Thr Ala Thr Ile Leu Leu Val Gly Thr 35 40 45

Glu Asp Ala Leu Leu Gln Gln Leu Ala Asp Ser Met Leu Lys Glu Asp 50 55 60

Cys Ala Ser Glu Leu Lys Val His Leu Ala Lys Ser Leu Pro Leu Pro 65 70 75 80

Ser Ser Val Asn Arg Pro Arg Ile Asp Leu Ile Val Phe Val Val Asn

Leu His Ser Lys Tyr Ser Leu Gln Asn Thr Glu Glu Ser Leu Arg His 100 105 110

Val Asp Ala Ser Phe Phe Leu Gly Lys Val Cys Phe Leu Ala Thr Gly 115 120 125

Gly Gly Xaa Leu 130

	L 0>														
	l 1>										•				
	.2>				•		• •							-	
<21	.3>	Homo	sap:	iens			•							-	
<22	20>														
<22	1> :	SITE				•				_					
<22	2>	(13)													
<22	3> 2	Kaa e	equal	ls ar	y of	the	nat	ural	ly c	occui	cring	J L-6	amino	aci	.ds
<22	0>														
<22	1> 5	SITE													
<22	2> ((72)													
<22	3> }	(aa e	qual	.s. an	y of	the	nat	ural	ly c	ccui	ring	L-a	minc	aci	ds
<40	0> 9	964													
His	Glu	ı Arg	Ser	Cys	Cys	Asp	Ala	Arg	Ser	Glu	Ala	Xaa	Gln	Gly	Arc
1				5					10					15	-
		,													
Gly	Arç	y Val			Gly	Ala	Gly	Ala	Ala	Trp	Ser	Ser	Суз	Gly	Val
			20	1				25					30		
a	-1										•			-	٠
ser	GIY			Arg	Gly	Met		Val	Leu	Ala	Ala			Arg	Cys
		35					40					45			
T.eu	Va 1	Ara	Glv	Δ1 =	n e n	A ===	 Mot	c	T	. :				_	
DC u	50		GLY	Ala	Asp	55	met	ser	гàг	Trp	Thr 60	ser	Lys	Arg	Gly
											80				
Pro	Arg	Ser	Phe	Arq	Gly				Ara	Glv	Ala	ī.vs	Glv	Tle	Glv
65	-				70	5		1	5	75		_,_	O_y	116	80
					:							•			
Phe	Leu	Thr	Ser	Gly	Trp	Arg	Phe	Val	Gln	Ile	Lys	Glu	Met	Val	Pro
				85					90		-			95	
	-	-	٠.	-		-									
Glu	Phe	Val		Pro	Asp	Leu	Thr	Gly	Phe	Lys	Leu	Lys	Pro	Tyr	Val
			100					105					110		
Ca															
ser	TYT		Ala	Pro	Glu	Ser		Glu	Thr	Pro	Leu		Ala	Ala	Gln
		115					120	,				125			
	Dho	50-	C3	A 1 -	17.5.1	21-					_				
Jeu	130	ser	GIU.	ALA	Val		Pro	ALA	He	GIu		Asp	Phe	Lys	Asp
		٠				135			•		140				
Gly	Thr	Phe	Asp	Pro	Asp		T.e.n	Glu	T.ve	Tree .	G1v	Pha	Glu	Pro	mb-
145					150		Deu	314	ny s	155	GIY	FIIE	GIG	PLO	160
													_		
Sln	Gĺu	Gly	Lys	Leu	Phe	Gln	Leu	Tyr	Pro	Arq	Asn	Phe	Leu	Arq	
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<212> PRT
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 965
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Lys Arg Lys Pro Ser Pro Gly Pro Gly Ser Leu Asp Leu Val Ser Leu
Gly Ser Gly Asn Ser Gly Ser Gln Arg Thr Val Leu Ile Met Asp Lys
                             40
Gln Asn Ser Gln Met Asn Ala Ser His Pro Glu Thr Asn Leu Pro Val
                         55
Gly Tyr Pro Pro Gln Tyr Pro Pro Thr Ala Phe Gln Gly Pro Pro Gly
Tyr Ser Gly Tyr Pro Gly Pro Gln Val Ser Tyr Pro Pro Pro Pro Ala
                                     90
Gly His Ser Gly Pro Gly Pro Ala Gly Phe Pro Val Pro Asn Gln Pro
            100
                                105
Val Tyr Asn Gln Pro Val Tyr Asn Gln Pro Val Gly Ala Ala Gly Val
                            120
Pro Trp Met Pro Ala Pro Gln Pro Pro Leu Asn Cys Pro Pro Gly Leu
    130
Glu Tyr Leu Ser Gln Ile Asp Gln Ile Leu Ile His Gln Gln Ile Glu
                    150
                                        155
Leu Leu Glu Val Leu Thr Gly Phe Glu Thr Asn Asn Lys Tyr Glu Ile
                                    170
                165
Lys Asn Ser Phe Gly Gln Arg Val Tyr Phe Ala Ala Glu Asp Thr Asp
            180
Cys Cys Thr Arg Asn Cys Cys Gly Pro Ser Arg Pro Phe Thr Leu Arg
```

		195					200					205	•		
Ile	Ile 210	Asp	Asn	Met	Gly	Gln 215		Val	Ile	Thr	Leu 220		Arg	Pro	Leu
Arg 225		Ser	Ser	Суѕ	Cys 230		Pro	Суѕ	Cys	Leu 235		Glu	Ile	Glu	Ile 240
Gln	Ala	Pro	Pro	Gly 245		Pro	Ile		Tyr 250	Va.l	Ile	Gln	Thr	Trp 255	His
Pro	Cys	Leu	Pro 260	Lys	Phe	Thr	Ile	Gln 265		Glu	Lys	Arg	Glu 270	Asp	Val
Leu	Lys	Ile 275	Ser	Gly	Pro	Cys	Val 280	Val	Cys	Ser	Cys	Cys 2 8 5	Gly	Asp	Val
Asp	Phe 290	Glu	Ile	Lys	Ser	Leu 295	Asp	Glu	Gln	Cys	Val 300	Val	Gly	Lys	Ile
Ser 305		His	Trp	Thr	Gly 310	Ile	Leu	Arg	Glu	Ala 315	Phe	Thr	Asp	Ala	Asp 320
Asn	Phe	Gly	Ile	Gln 325	Phe	Pro	Leu.	Asp	Leu 330	Asp	yal	Lys	Met	Lys 335	Ala
Val	Met	Ile	Gly 340	Ala	Cys	Phe	Leu	.Ile 345	Asp	Phe	Met	Phe	Phe 350	Glu	Ser
Thr	Gly	Ser 355	Xaa	Glu	Gln	Lys	Ser 360	Gly	Val	Trp			·.:.	٠.	
	-			٠.	-			•				-		-	
<211 <212	0> 96 l> 13 2> PF	31 RT									:		٠	·	
			sapie	ens	•										•
)> 96 Glu		His	Thr	Ara	Lvs	Gln	Glv	Pro	Glu	Ala	Glu	Pro	Ala	Ala
										1					
			Glu 20				Thr			Ala	Pro		Pro 30		Glu
Val	Glu	Pro 35	Gly	Ser	Gly	Val	Arg 40	Ile	Val	Val	Glu				Pro
-	_					_				Ala			Val	Lys	Glu

Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala

```
Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
                 85 .
                                      90
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
                                105
Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
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Val Ile Leu
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<210> 967
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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 967
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Pro Ser Pro Pro His Arg Pro Asp Ser Pro Leu Phe Asn Ser Arg Cys
Ser Ser Pro Leu Gln Leu Asn Leu Leu Gln Leu Glu Glu Leu Pro Arg
                            40
Ala Glu Gly Ala Ala Val Ala Gly Gly Pro Gly Ser Ser Ala Gly Pro
     50
                         55
Pro Pro Pro Xaa Ala Glu Ala Ala Glu Pro Glu Ala Arg Leu Ala Glu
                                         75
Val Thr Glu Ser Ser Asn Gln Asp Ala Leu Ser Gly Ser Ser Asp Leu
```

Let	ı Glı	u Le	u Lei 100	ı Lei	ı Glr	ı Glu	a Asg) Sei		g Sei	r Gly	y Thi	r Gly		r Al
Ala	se:	115		: Lei	ı Gly	/ Ser	Gly 120		ı Gly	y Sei	c Gly	7 Ser 125		y Sei	r Gl
Ser	His	Glu	ı Gly	, Gl	/ Ser	135		Ala	a Ser	: Ile	Thr 140		g Ser	Ser	Gl:
Ser 145		His	Thr	Ser	Lys 150		Phe	Gly	Ser	: Ile 155		Ser	Ser	Glu	1 Ala
Glu	Ala	Gly	Ala	Ala 165	Arg	Gly	Gly	Ala	Glu 170		Gly	Asp	Gln	Val 175	
Lys	Туг	Val	Leu 180		Asp	Pro	Ile	Тrр 185		Leu	Met	Ala	Asn 190		Asp
Gln	Arg	Val 195		Met	Thr	туг	Gln 200	Val	Pro	Ser	Ārg	Asp 205		Thr	Ser
Val	Leu 210	Lys	Gln	Asp	Arg	Glu 215	Arg	Leu	Arg	Ala	Met 220	Gln	Lys	Gl'n	Gln
Pro 225	Arg	Phe	Ser	Glu	Asp 230	Gln	Arg	Arg	Glu	Leu 235	Gly	Ala	Val		Ser 240
	-			245	Gln				250	•				255	:
			260		Ser			265		-			270		٠
		275		-	Asp		280					285			
	290				Ser	295					300				
305			•		Gly 310					315					320
				325	Glu		•		330		Ser	Ser	Pro	Ala 335	Leu
Pro	Thr	Ala	Gly	Asn	Cys	Thr	Ser						•	-	-

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<210> 968
<211> 67
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Trp Glu Gly Phe Lys Asp Ala Cys Tyr Gly Ala Asn Val Leu Ser Leu 20 25 30

Leu Asn Ser Arg Ser Glu Leu Leu Thr Cys Ile Gln Asn Ile Asn Ala 35 40 \cdot 45

Gln Asn Leu Tyr Met Ser Pro Ile Arg Lys Ile His Trp His Ala Thr 50 55 60

Gly Asp Ser 65

<210> 969 <211> 325 <212> PRT <213> Homo sapiens

<400> 969

Leu Asn Leu Arg Ser Pro His Ile Cys Phe Arg Ser Ser Lys Pro Ser 1 5 10 15

Trp Ala Asp Gln Val Glu Glu Glu Glu Glu Asp Asp Lys Cys Val Thr 20 25 30

Ser Glu Leu Lys Gly Ile Pro Leu Ala Thr Gly Asp Thr Ser Pro 35 40 45

Glu Pro Glu Leu Leu Pro Gly Ala Pro Leu Pro Pro Pro Lys Glu Val 50 55 60

Ile Asn Gly Asn Ile Lys Thr Val Thr Glu Tyr Lys Ile Asp Glu Asp 65 70 75 80

Gly Lys Lys Phe Lys Ile Val Arg Thr Phe Arg Ile Glu Thr Arg Lys 85 90 95

Ala Ser Lys Ala Val Ala Arg Arg Lys Asn Trp Lys Lys Phe Gly Asn 100 105 110

Ser Glu Phe Asp Pro Pro Gly Pro Asn Val Ala Thr Thr Val Ser

		115					120					125			
Asp	Asp		Ser	Met	Thr	Phe		Thr	Ser	Lys	Glu 140	_	Leu	Asn	Cys
Gln 145		Glu	Glu	Asp	150		Asn	Lys	Leu	Lys 155	Gly	Gln	Lys	Ile	Val 160
Ser	Cys	Arg	Ile	Cys 165	Lys	Gly	Asp	His	Trp		Thr	Arg	Cys	Pro 175	Tyr
Lys	Asp	Thr	Leu 180	Gly	Pro	Met	Gln	Lys 185		Leu	Ala		190	Leu	Gly
Leu	Ser	Thr 195	Gly	Glu	Lys	Glu	Lys 200	Leu	Pro	Gly		Leu 205	Glu	Pro	Val
Gln	Ala 210	Thr	Gln	Asn	Lys	Thr 215	Gly	Lys	туг	Val	Pro 220	Pro	Ser	Leu	Arg
Asp 225	Gly	Ala	Ser	Arg	Arg 230	Gly	Glu	Ser	Met	Gln 235	Pro	Asn	Arg	Arg	Ala 240
Asp	Asp	Asn	Ala	Thr 245	Ile	Arg	Val	Thr	Asn 250	Leu	Ser	Glu	Asp	Thr 255	Arg
Glu	Thr	Asp	Leu 260	Gln	Glu	Leu	Phe	Arg 265	Pro	Phe	Gly	Ser	Ile 270	Ser	Arg
Ile	Tyr	Leu 275	Ala	Lys	Asp	Lys	Thr 280	Thr	Gly	Gln	Ser	Lys 285	Gly	Phe	Ala
Phe	Ile 290	Ser	Phe	His	Arg	Arg 295	Glu	Asp	Ala	Ala	Arg 300	Ala	Ile	Ala	Gly
Val 305	Ser	Gly	Phe	Gly	Tyr 310	Asp	His	Leu	Ile	Leu 315	Asn	Val	Glu	Trp	Ala 320
Lys	Pro	Ser	Thr	Asn 325											
	•				••	•		₹ .	•	• .		• .			
<211)>. 97 .> 35 !> PR	7	-	• .											
			apie	ns			.*								
	> 97 Arg		Lys	Met	Ala	Ala	Ala	Glu	Ala	Ala	Asn	Cys	Ile	Met	Glu
•				_											

Val	Ser	Cys	Gly 20		Ala	Glu	Ser	Ser 25		Lys	Pro	Asn	Ala 30		Asp
Met	Thr	Ser 35		Asp	Tyr	Tyr	Phe 40	Asp	Ser	Tyr	Ala	His 45	Phe	Gly	Ile
His	Glu 50	Glu	Met	Leu	Lys	Asp 55	Glu	Val	Arg	Thr	Leu 60	Thr	Tyr	Arg	Asn
Ser 65	Met	Phe	His	Asn	Arg 70	His	Leu	Phe	Lys	Asp 75		Val	Val	Leu	Asp 80
Val	Gly	Ser	Gly	Thr 85	Gly	Ile	Leu	Cys	Met 90	Phe	Ala	Ala	Lys	Ala 95	Gly
Ala	Arg	Lys	Val 100	Ile	Gly	Ile	Glu	Cys 105	Ser	Ser	Ile	Ser	Asp 110	Tyr	Ala
		115					120					125			Ile
	130					135					140				Ile
145					150		Tyr			155					160
				165			Asp		170				٠	175	
			180				Leu	185				•	190		
		195					His 200					205		_	
	210					215	Val				220				_
Val 225	Val	Asp	Pro	Lys	Gln 230	Leu	Val	Thr.	Asn	Ala 235	Cys	Leu	Ile	Lys	Glu 240

Val Asp Ile Tyr Thr Val Lys Val Glu Asp Leu Thr Phe Thr Ser Pro

Phe Cys Leu Gln Val Lys Arg Asn Asp Tyr Val His Ala Leu Val Ala 260 265 270

Tyr Phe Asn Ile Glu Phe Thr Arg Cys His Lys Arg Thr Gly Phe Ser

280

250

245

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Thr Ser Pro Glu Ser Pro Tyr Thr His Trp Lys Gln Thr Val Phe Tyr
      290 295
  Met Glu Asp Tyr Leu Thr Val Lys Thr Gly Glu Glu Ile Phe Gly Thr
 305 310 315 320
  Ile Gly Met Arg Pro Asn Ala Lys Asn Asn Arg Asp Leu Asp Phe Thr
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<220>
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            Asp Phe Lys Lys Ala Phe Ser Lys Glu Lys Met Glu Lys Thr Lys Val
        20 25 30
Arg Thr Arg Glu Asn Leu Glu Lys Thr Arg Leu Lys Thr Lys Glu Asn
         35 40 45
Leu Glu Lys Thr Arg His Thr Leu Glu Lys Arg Met Asn Lys Leu Gly
                        55
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 Thr Arg Leu
 Val
 Pro Ala 70
 Clu Arg 70
 Arg 20
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<210> 972 <211> 159 <212> PRT

<213> Homo sapiens

<400> 972

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Glu Ala Pro Pro Pro Arg Asp Val Ala Leu Leu Gln Gly Arg Ala Asn 20 25 30

Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile 35 40 45

Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val

Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe
65 70 75 80

Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu 85 90 95

Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys

			100	•				105	5				110)	
Asp	Ser	Pro	b Lys	Leu	Gly	Leu	Leu 120		. Val	L Leu	Leu	Ser 125		: Ile	
Met	Asn 130		/ Asn	Arg		135					140		Val	. Leu	ı Arç
Lys		Gly	Leu		Leu 150	Gly	туr	Ile	: Ile	His 155					
				• .		*	- ,	. :	A.,						
<21	0> 9 1> 2 2> P	33													
			sapi	ens											
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			qual	s any	y of	the									
			Lys	Ala 5						Leu	Ala				Leu
			Arg												
Arg	Lys		Ser				Ala 40				His				Asn
Phe	Lys 50	Ala	Thr	Ala						Gln		Lys	Asp	Ile	Ser
Leu 65		Asp	Tyr	Lys		Lys	Tyr		Val		Phe			Pro	
Asp	Phe	Thr	Phe	Val 85		Pro	Thr	Glu	Ile 90		Ala			_	_
Ala	Glu	Glu	Phe 100	Lys	Lys	Leu	Asn	Cys 105	Gln	Val	Ile	Gly	Ala 110	Ser	Val
			Phe											Lys	Gln
			Gly										Pro	Lys	Arg

Thr Ile Ala Gln Asp Tyr Gly Val Leu Lys Ala Asp Glu Gly Ile Ser 145 150 155 160

Phe Arg Gly Leu Phe Ile Ile Asp Asp Lys Gly Ile Leu Arg Gln Ile 165 170 175

Thr Val Asn Asp Leu Pro Val Gly Arg Ser Val Asp Glu Thr Leu Arg 180 185 190

Leu Val Gln Ala Phe Gln Phe Thr Asp Lys His Glý Glu Val Cys Pro 195 200 205

Ala Gly Trp Lys Pro Gly Ser Asp Thr Ile Lys Pro Asp Val Gln Lys 210 220

Ser Lys Glu Tyr Phe Ser Lys Gln Lys 225 230

<210> 974

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 974

Ser Trp Asp Arg Arg Leu Met Gln Asp Asp Asn Arg Gly Leu Gly Gln $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Gly Leu Lys Asp Asn Lys Arg Thr Cys Asn Arg Phe Arg Leu Leu Leu 20 25 30

Glu Arg Arg Thr Xaa Gly Ser Glu Val Gln Asp Ser His Ser Thr Ser 35 40 45

Tyr Pro Ser Leu Leu Ser His Leu Thr Ser Met Tyr Leu Asn Ala Pro 50 55 60

Ala Leu Ala Leu Pro Val Ala Arg Met Gln Leu Pro Gly Pro Gly Leu 65 70 75 80

Arg Ser Phe His Pro Leu Ala Ser Ser Leu Pro Cys Asp Phe His Leu 85 90 95

Leu Asn Leu Arg Thr Leu Gln Ala Glu Glu Asp Thr Leu Pro Ser Ala 100 105 110

Glu	Thr	Ala 115		Ile	Leu	His	Arg 120	Lys	Val	Leu	Thr	Ala 125		Trp	Arg
Gln	Glu 130	Leu			Gln	Leu 135	His	His	Lys	Pro	Arg 140	Gln	Gly	Ser	Pro
Gly 145	Gln	Pro			-		_	Cys	-			Ser		Asn	
Leu	Asp	Val						Leu					His		
<21	0> 9	75		<u>-</u> :	· · · · ·	· · · ·				-				<u>:</u> ;;	
<21	1> 38 2> PI 3> Ho	RT.	sapie	ens			,	īî					· I i ·	,	
<22			_		-						-	. •			
	2> (3 3>. Xa	-	quals	s any	y of	the	nati	ırall	Ly o	cur	ring.	L=ar	mino.	acio	is:
	0> 97 .Pro		Val	Arg 5	His	Ser	Arg.	Glu	Ala 10	Pro	Glu	Ser	Arg	Arg 15	Trp.
Ala	Val	Trp	Arg 20		Leu	Glu	Ser	Leu 25		Arg	His:	Gln	Leu-		Cys
Leu	Pro	Val 35	Gly.	Ala.	Pro	Pro	Ala 40	Pro.	Ala	Met	Leu	Ser 45	Ala [·]	Leu	Ala
Arg	Pro 50	Ala	Ser	Ala	Ala ·	Leu 55	Arg.	Arg	Ser	Phe	Ser 60	Thr	Ser	Ala	Gl'n
Asn 65	Asn	Ala	Lys	Val	Ala 70	Val	Leu	Gly	Ala [.]	Ser 75	Gly	Gly.	Ile:	Gly	Gln 80
Pro	Leu	Ser	Leu.	Leu 85	Leu	Lys	Asn	Ser.	Pro 90	Leu	Val.	Ser:	Arg.	Leu 95	Thr:
Leu	Tyr	Asp	Ile 100	Ala	His:	Thr	Pro	Gly 105	Val	Ala	Ala	Asp:	Leu 110	Ser.	His
Ile	Glu	Thr 115	Lys	Ala	Ala.	Val	Lys 120	Gly	Tyr	Leu	Gly	Pro 125	Glu.	Gln	Leu
Pro	Asp:	Cys-	Leu	Lys	Xaa	Cys	Asp	Val	Val	Val	Ile	Pro	Ala:	Gly	Val

	130					135					140	ı			
Pro 145		Lys	Pro	Gly	Met 150		Arg	Asp	Asp	Leu 155		Asn	Thr	Asn	Ala 160
Thr	Ile	Val	Ala	Thr 165		Thr	Ala	Ala	Cys 170		Gln	His	Cys	Pro 175	
Ala	Met	Ile	Cys 180		Ile	Ala	Asn	Pro 185		Asn	Ser	Thr	Ile 190	Pro	Ile
Thr	Ala	Glu 195	Val	Phe	Lys	Lys	His 200	Gly	Val	Tyr	Asn	Pro 205		Lys	Ile
Phe	Gly 210		Thr	Thr	Leu	Asp 215	Ile	Val	Arg	Ala	Asn 220		Phe	Val	Ala
Glu 225	Leu	Lys	Gly	Leu	Asp 230	Pro	Ala	Arg	Val	Asn 235	Val	Pro	Val	Ile	Gly 240
Gly	His	Ala	Gly	Lys 245	Thr	Ile	Ile	Pro	Leu 250	Ile	Ser	Gln	Cys	Thr 255	Pro
Lys	Val	Asp	Phe 260	Pro	Gln	Asp	Gln	Leu 265	Thr	Ala	Leu	Thr	Gly 270	Arg	Ile
Gln	Glu	Ala 275	Gly	Thr	Glu	Val	Val 280	Lys	Ala	Lys	Ala	Gly 285	Ala	Gly	Ser
Ala	Thr 290	Leu	Ser	Met	Ala	Tyr 295	Ala	Gly	Ala	Arg	Phe 300	Val	Phe	Ser	Leu
305			,		310		Glu			315					320
	,			325	•		Thr		330	. •				335	
			340				Asn	345					350		
		355					Asp 360				٠.	Leu 365	Lys	Ala	Ser
Ile	Lys 370	Lys	Gly	Glu	Asp	Phe 375	Val	Lys	Thr	Leu	Lys 380				

<210> 976 <211> 269

<21	2> 1	PRT													
<21	3> F	omo	sapi	.ens											
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Ala 1		Leu	Ser			Thr			Thr 10			Ala		Lys 15	
Thr	·Ile	Ser	Asn 20		Ser	Gly	Phe	Asn 25		Thr	Cys	Leu	Arg 30		Arg
Ser	Ile	Lys 35	Thr	Ala	Asp	Met	Glu 40		Met	Tyr	Leu	Phe 45		Ile	Trp
Gly	Gln 50					55					60				
Tle	Ser	Ser	Ser										T 011		
65			Sei	Sei	70	nap	FIG	Giu	vai	75			rea	_	80
Gly	Thr	Asn	Tyr	Asn 85	Val	Ser	Leu	Arg	Ala 90	Leu	Ser	Ser	Glu	Leu 95	Pro
Val	Val	Ile	Ser 100		Thr								Leu 1-10		
Val	Glu	Phe											Leu		Leu
Arg	Lys 130	Ala	Lys	Glu	Lys	Asn 135	Gly	Pro	Ile	Ser	Ser 140	Tyr	Gln	Val	Leu
Val 145	Leu	Pro											Ser		
Ala		Ser											Tyr		
Ala	Glu	Leu	Leu 180	Ala	Lys	Asp			Asp			•	Glu 190	Ile	Pro
Ile		Asp 195	Arg	Leu	Tyr 	Tyr	Gly 200	Glu	Tyr					Leu	Lys
	Gly 210	Ser			Cys				Arg				Glu	Trp	Asn
Lys 225	**	Arg	Arg	His	Ser 230	Cys	Ala	Val	Trp	Ala 235	Gln	Val	Lys	Asp	Ser 240
Ser	Leu	Met	Leu	Leu 245	Gln	Met	Ala	Gly	Val 250	Gly	Leu _.	Gly		Leu 255	Ala

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Val Val Ile Ile Leu Thr Phe Leu Ser Phe Ser Ala Val
260 265
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<210> 977
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
Leu Phe Ser Pro Gln Val Glu Leu Thr Lys Ala Met Val Met Glu Lys
Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val Arg Gln Tyr Tyr Thr
                                 25
Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg Phe Tyr Gly Lys Asn
         35
                             40
Ser Ser Tyr Val His Gly Gly Leu Asp Ser Asn Gly Lys Pro Ala Asp
Ala Val Tyr Gly Gln Lys Glu Ile His Arg Lys Val Met Ser Gln Asn
 65
                     70
                                         75
Phe Thr Asn Cys His Thr Lys Ile Arg His Val Asp Ala His Ala Thr
                                    90
Leu Asn Asp Gly Val Val Val Gln Val Met Gly Leu Leu Ser Asn Asn
           100
                               105
Asn Gln Ala Leu Arg Arg Phe Met Gln Thr Phe Val Leu Ala Pro Glu
        115
Gly Ser Val Ala Asn Lys Phe Tyr Val His Asn Asp Ile Phe Arg Tyr
Gln Asp Glu Val Phe Gly Gly Phe Val Thr Glu Pro Gln Glu Glu Ser
                   150
                                       155
```

Glu	Glu	Glu	ı Val	. Glu 165		Pro	Glu	Glu	170		Gln	Thr	Pro	Glu 175	ı Val
Val	Pro	Asp	180		Gly	The	Phe	Tyr 185		Gln	. Alá	Val	Val 190		Asn
Asp		. Glu . 195		His	Leu	Glu	Glu 200		Val	. Ala	Glu	Pro 205		Pro	Asp
Pro	Glu 210		Glu	Pro	Glu	Gln 215		Pro	Val	Ser	Glu 220	Ile	Gln	Glu	Glu
Lys 225	Pro	Glu	Pro	Val	. Leu 230		Glu	Thr	Ala	235		Asp	Ala	Gln	Lys 240
Ser	Ser	Ser	Pro	Ala 245		Ala	Asp	Ile	Ala 250		Thr	Val	Gln	Glu 255	Asp
			260			;		265		Ser	:	٠:	270		·. :
٠		275			· .		280		·	Pro	۰ -	285		:	
Pro	Ala 290	Ser	Gln	Pro	Arg	Pro 295	Glu	Ser	Lys	Pro	Glu 300	ser	Gln	Ile	Pro
305		-	<i>:</i> ::		310	· - =,			:	Arg 315		- : '			320
			٠.	325	٠	į.			330	Arg	١.		_	335	
		٠.	340					345	-	His		: .	350		
. •		355				٠,٠	360	٠.		Asp	•	365		-	
	370		; ;		1.1	375			•	Glu	380				
385	٠.				390		2 -		:						400
			25	405	2				410	Ile		.:		415	
Val	Arg	Leu	Asn 420	Val	Glu	Glu		Lys 425	Thr	Arg	Ala		Arg 430	Glu	Gly

```
Asp Arg Arg Asp Asn Arg Leu Arg Gly Pro Gly Gly Pro Arg Gly Gly
Leu Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met Val Gln Lys
    450
                        455
Pro Gly Phe Gly Val Gly Xaa Gly Xaa Ala Pro Arg Gln
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<222> (128)
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<220>
<221> SITE
<222> (326)
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<220>
<221> SITE
<222> (339)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 978
Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
                                    10
Gly Arg Gly Gly Met Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
             20
                               25
Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
                             40
Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
    50
                         55
Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg
```

65					70	ı				75	•				80
Asn	Val	Gly	Leu	Cys 85		Ala	Ile	Val	Gln 90		Thr	Arg	Thr	Phe	s Ser
Pro	Ser	Lys	Prc 100		Lys	Ser	Leu	His 105		Gln	Lys	Asn	Arg		Phe
Phe	Asn	- Glu 115		⊹Glu	Glu	Asn	Phe 120		Met	_Val	Mèt	Val 125		Arg	'Xaa
Pro	Ile 130		Glu	-Lys	Gln	Ser 135		: Asp	::Gly	Lys	Pro 140		Ile	-Glu	-Tyr
Gln 145	Glu	Glu	Glu	Leu	:Leu 150	;Asp	Lys	. Val	Tyr	Ser 155		Val	Leu	Arg	Gln 160
Cys	Туг	Ser	Met	Tyr 165	∷Lys	Leu	Phe	Aśn	Gly 170	Thr	-Phė	Leu	Lys	:Ala 175	Met
Glu	Asp	Gly	Gly 180		Lys	Leu	~Lėu	Lys 185	:Glů	Arg	/ Leu	Glu	Lys 190		Phe
His	Arg	Tyr 195	Leu	Gln	Thr	Leu	His 200	Leu	Gln	Ser	Cÿs	Asp 205		Leu	Asp
	Phe 210	Gly	Gly	·Ile	Ser	Phe 215	Phe	Pro	Leu	Asp	Lys 220		Thr	Tyr	Leu
225				•	230					235					Val 240
				245					250					255	Leu
			260					265					270		Leu
		275					280					285			Ile
;	290					295	·				300				Thr
305		•			310		Pro			315					320
				325			Thr		Glu 330	Glu	Leu .	His:		11e` 335	Xaa
råt j	∟ys∵	лaa								-					

<21	0> 9 1> 2	83											٠		
	2> P 3> H		sapi	ens											
	0> 9 Arg		Arg	Arg 5		Gly	Leu	Arg	Cys 10		Arg	Arg	Thr	Ser 15	
Ala	Ala	Gly	Ser 20		Ala	Gly	Pro	Pro 25		Pro	Leu	Gln	Gly 30		Sei
Gly	Ser	Ser 35		Ala	Pro	Arg	Pro 40		Arg	Arg	Thr	Glu 45		Arg	Arg
Lys	Gly 50		Gly	Gly	Thr	Arg 55		Arg	Pro	Ala	Ala 60	Ala	Met	.Asn	Ser
Asn 65	Val	Glu	Asn	Leu	Pro 70	Pro	His	Ile	Ile	Arg 75		Val	Tyr	Lys	Glu 80
Val	Thr	Thr	Leu	Thr 85	Ala	Asp	Pro	Pro	Asp 90	Gly	Ile	Lys	Val	Phe 95	
Asn	Glu	Glu	Asp 100	Leu	Thr	Asp	Leu	Gln 105	Val	Thr	Ile	Glu	Gly 110	Pro	Glu
Gly	Thr	Pro 115	Tyr	Ala	Gİy	Gly	Leu 120	Phe	Arg	Met	Lys	Leu 125	Leu	Leu	Gly
Lys	Asp 130	Phe	Pro	Ala	Ser	Pro 135	Pro	Lys	Gly	Tyr	Phe 140	Leu	Thr	Lys	Ile
Phe 145	His	Pro	Asn	Val	Gly 150	Ala	Asn	Gly	Glu	Ile 155	Суѕ	Val	Asn	Val	Léu 160
Lys	Arg	Asp	Trp	Thr 165	Ala	Glu	Leu	Gly	Ile 170	Arg	His	Val	Leu	Leu 175	Thr
Ile	Lys	Cys	Leu 180		Ile	His	Pro	Asn 185	Pro	Glu	Ser	Ala	Leu 190	Asn	Glu
Glu	Ala	Gly 195	Arg	Leu	Leu	Leu	Glu 200	Asn	Tyr	Glu	Glu	Tyr 205	Ala	Ala	Arg
Ala	Arg	Leu	Leu	Thr	Glu	Ile		Gly	Gly	Ala	Gly	Gly	Pro	Ser	Gly

Arg Ala Glu 225	Ala Gly	Arg Ala 230	a Leu Ala	Ser Gly 235		a Ala Ser Ser 240
Thr Asp Pro	Gly Ala 245		Gly Pro	Gly Gly 250	Ala Glu	Gly Pro Met 255
Ala Lys Lys	His Ala 260	Gly Glu	Arg Asp 265	Lys Lys	Leu Ala	Ala Lys Lys 270
Lys Thr Asp	Lys Lys	Arg Ala	Leu Arg	Arg Leu	\$1.1 L 19	
<210> 980	11	T. France	<u>.</u>	1	Terror	المراضية المستخدمة المستخدمة
<211> 353 <212> PRT <213> Homo s			· ¬ ;	: 312 //	. -	
<220> <221> SITE <222> (333)	-	2.12 T2 -	. 100	. : • . • -	* * * * * * *	e en e en
	uals any	y of the	natural	ly occur	ring L-a	mino acids
~220> .						
<221> SITE <222> (346)	-			18 July 12 12 18 12		
<222> (346) <223> Xaa eq	uals any	of the	natural	ly occur	ring L-a	
<222> (346) <223> Xaa eq <400> 980	uals any	,	natural	ly occur	ring L-a	mino acids
<222> (346) <223> Xaa eq	uals any Cys Gln	Asp Ser	natural Lys Asp	ly occur Ser Asn	ring L-a	mino acids
<222> (346) <223> Xaa eq <400> 980 Arg Lys Gln	uals any Cys Gln 5 Ala Phe	Asp Ser	natural Lys Asp	ly occur Ser Asn 10	ring L-a His Leu	mino acids Pro Lys Met 15
<222> (346) <223> Xaa eq <400> 980 Arg Lys Gln	uals any Cys Gln 5 Ala Phe 20	Asp Ser Thr Leu Tyr Asp	natural Lys Asp Phe Leu 25	Ser Asn 10	ring L-a His Leu	Pro Lys Met 15 Gly Thr Ser
<222> (346) <223> Xaa eq <400> 980 Arg Lys Gln 1 Ser Leu Ser	Cys Gln 5 Ala Phe 20 Tyr Asp	Asp Ser Thr Leu Tyr Asp	natural Lys Asp Phe Leu 25 Phe Pro 40	Ser Asn 10 Ala Leu Leu Ser	His Leu Ile Gly Ile Tyr 45	Pro Lys Met 15 Gly Thr Ser 30 Gly Gln Ser
<pre><222> (346) <223> Xaa eq <400> 980 Arg Lys Gln 1 Ser Leu Ser Gly Gln Tyr 35</pre>	Cys Gln 5 Ala Phe 20 Tyr Asp Cys Ala	Asp Ser Thr Leu Tyr Asp Pro Glu 55	natural Lys Asp Phe Leu 25 Phe Pro 40 Cys Asn	Ser Asn 10 Ala Leu Leu Ser	His Leu Ile Gly Ile Tyr 45 Glu Ser	Pro Lys Met 15 Gly Thr Ser 30 Gly Gln Ser Tyr Pro Ser
<pre><222> (346) <223> Xaa eq <400> 980 Arg Lys Gln 1 Ser Leu Ser Gly Gln Tyr</pre>	Cys Gln 5 Ala Phe 20 Tyr Asp Cys Ala	Asp Ser Thr Leu Tyr Asp Pro Glu 55 Glu Leu 70	natural Lys Asp Phe Leu 25 Phe Pro 40 Cys Asn Lys Leu	Ser Asn 10 Ala Leu Leu Ser Cys Pro Lys Ser 75	His Leu Ile Gly Ile Tyr 45 Glu Ser 60 Val Pro	Pro Lys Met 15 Gly Thr Ser 30 Gly Gln Ser Tyr Pro Ser Met Val Pro 80

Asp	His	Asn 115	Leu	Leu	Glu	Asn	Ser 120	-	Ile	Lys	Gly	Arg 125		Phe	Ser
Lys	Leu 130	Lys	Gln	Ļeu	Lys	Lys 135		His	Ile	Asn	His 140	Asn	Asn	Leu	Thr
Glu 145	Ser	Val	Gly	Pro	Leu 150		Lys	Ser	Leu	Glu 155	Asp	Leu	Gln		Thr
His	Asn	Lys	Ile	Thr 165	Lys	Leu	Gly	Ser	Phe 170	Glu	Gľy	Leu	Val	Asn 175	Leu
Thr	Phe	Ile	His 180	Leu	Gln	His	Asn	Arg 185		Lys	Glu	Asp •	Ala 190	Val	Ser
Ala	Ala	Phe 195	Lys	Gly	Leu	Lys	Ser 200	Leu	Glu	Tyr	Leu	Asp 205	Leu	Ser	Phe
Asn	Gln 210	Ile	Ala	Arg	Leu	Pro 215	Ser	Gly	Leu	Pro	Val 220	Ser	Leu	Leu	Thr
Leu 225	Tyr	Leu	Asp	Asn	Asn 230	Lys	Ile	Ser	Asn	11e 235	Pro	Asp	Glu	Tyr	Phe 240
Lys	Arg	Phe	Asn	Ala 245	Leu	Gln	Tyr	Leu	Arg 250	Leu	Ser	His	Asn	Glu 255	Leu
Ala	Asp	Ser	Gly 260	Ile	Pro	Gly	Asn	Ser 265	Phe	Asn	Val	Ser	Ser 270	Leu	Val
Glu	Leu	Asp 275	Leu	Ser	Tyr	Asn	Lys 280	Leu	Lys	Asn	Ile	Pro 285	Thr	Val	Asn
Glu	Asn 290	Leu	Glu	Asn	Tyr	Tyr 295	Leu	Glu	Val	Asn	Gln 300	Leu	Glu	Lys	Phe
Asp 305	Ile	Lys	Ser	Phe	Cys 310	Lys	Ile	Leu	Gly	Pro 315	Leu	Ser	Tyr	Ser	Lys 320
Ile	Lys	His	Leu ·	Arg 325	Leu	Asp	Gly	Asn	Arg 330	Ile	Ser	Xaa	Thr	Ser 335	Leu
Pro	Pro	Asp	Met 340	Tyr	Glu	Cys	Leu	Arg 345	Xaa	Ala	Asn	Glu	Val 350	Thr	Leu

Asn

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 <212> PRT
 <213> Homo sapiens
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 Gln Tyr Gln Leu Arg Gln Thr Asn Gln Pro Leu Asp Val Asn Tyr Leu
 Leu Phe Leu Ile Ile Leu Gly Lys Ile Leu Leu Asn Ile Leu Thr Leu
          35 -
                              40
                                                 45
 Gly Met Arg Arg Lys Asn Thr Cys Gln Asn Phe Met Glu Tyr Phe Cys
                         55
 Ile Ser Leu Ala Phe Val Asp Leu Leu Leu Val Asn Ile Ser Ile
                     70 ·
                                         75
 Ile Leu Tyr Phe Arg Asp Phe Val Leu Leu Ser Ile Arg Phe Thr Lys
 Tyr His Ile Cys Leu Phe Thr Gln Ile Ile Ser Phe Thr Tyr Gly Phe
                                105
Leu His Tyr Pro Val Phe Leu Thr Ala Cys Ile Asp Tyr Cys Leu Asn
         115
                             120
                                                125
 Phe Ser Lys Thr Thr Lys Leu Ser Phe Lys Cys Gln Lys Leu Phe Tyr
                         135
 Phe Phe Thr Val Ile Leu Ile Trp Ile Ser Val Leu Ala Tyr Val Leu
 Gly Asp Pro Ala Ile Tyr Gln Ser Leu Lys Ala Gln Asn Ala Tyr Ser
                         . 170
              165
 Arg His Cys Pro Phe Tyr Val Ser Ile Gln Ser Tyr Trp Leu Ser Phe
                                185
 Phe Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu
         195
                             200
 Val Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu
```

```
210
                         215
                                             220
 Thr Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg
 225
                     230
                                        235
Ser Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr
                 245
                                     250
Trp Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val
             260
                                 265
                                                     270
Gln Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val
                             280
Asn Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu
                        295
Asn Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys
305
                    310
                                         315
Cys Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys
                325
                                    330
Pro Ile Ser Ile Met Ile Xaa
            340
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<222> (132)
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<400> 982
Gly Leu Pro Pro Ser Thr Phe Leu His Ser Ala Val Ser Thr Leu Pro
 10 15
His Arg Pro Ser Pro Pro Ser Leu Leu Pro Ala Pro Cys Lys Pro Leu
                                                              25 30
                    20
Arg Leu Gly Leu Ala Thr Val Pro Ala Gly Ser Pro Gly Leu Gly Val
Gly Asp Ser Leu Gln Ala Arg Ser Pro Glu Thr Ser Glu Gly His Pro
           50
                                                        5.5
Leu Arg Val Ala Arg Pro Pro Val Ala Asn Leu Ser Ala Ala Ser Ala
Thr Ser Pro Ala Gly Pro Trp Phe Arg Trp Pro Pro Arg Cys Leu Ala
Glu Thr Arg His Gly Pro Ser Ala Gly Pro His Xaa Phe Pro Xaa Pro
                                                                     105 110
                          100
Gly Xaa Trp His Cys Ser Arg Gln Xaa Xaa Gly His Gln Xaa Xaa Asn
                                                             120
Arg Thr Gln Xaa Pro Ala Gln Thr Ala Ala Gly Met Gly Ala
         130
                                                     135
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<221> SITE
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<220>
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Val Asn Phe Lys Ala Phe Glu Met Gly Lys Asp Tyr Tyr Cys Ile Leu
Gly Ile Glu Lys Gly Ala Ser Asp Glu Asp Ile Lys Lys Ala Tyr Arg
                                25
Lys Gln Ala Leu Lys Phe His Pro Asp Lys Asn Lys Ser Pro Gln Ala
         35
                            40 .
Glu Glu Lys Phe Lys Glu Val Ala Glu Ala Tyr Glu Val Leu Ser Asp
                        55
Pro Lys Lys Arg Glu Ile Tyr Xaa Gln Phe Gly Glu Glu Gly Leu Lys
                                         75
Gly Gly Ala Gly Gly Thr Asp Gly Gln Gly Gly Thr Phe Arg Tyr Thr
Phe His Gly Asp Pro His Ala Thr Phe Ala Ala Phe Phe Gly Gly Ser
                              105
Asn Pro Phe Glu Ile Phe Phe Gly Arg Arg Met Gly Gly Arg Asp
                        120
       115
                                                125
Ser Glu Glu Met Glu Ile Xaa Gly Asp Pro Xaa Ser Ala Phe Gly Phe
                        135
Ser Met Asn Gly Tyr Pro Arg Asp Arg Asn Ser Val Gly Pro Ser Arg
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Leu	Lys	Glm	Asp	165			. Ile		Glu 170		Arg	Val	Ser	Leu 175	Glu
٠.		Tyr	Ser 180		Cys	Thr	Lys	Arg 185		Glu	Arg	Phe	: Leu 190		Lys
Gly		1	· 4;			1	. •	<i>:</i> `	.· .	- 1		٠.		.* ·	
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Arg.	Gln	- Tyŕ	Tyr 20		Ser	Lys	- Ile	Glu 25	Glu	· Leu	Gln	Leu	Ile 30	Val	Asn
Asp	Lys	Ser 35	Gln	Asn	Leu	Arg	Arg 40	Leu	Gln	Ala	Gln	Arg 45	Asn	Glu	Leu
Asn	Ala 50		Val	Arg	Leu	Leu 55		Glu	Glu	Leu	Gln 60	Leu	Leu	Gln	Glu
Gln 65	Gly	Ser	·Tyr	Val	Gly: 70		Val	'Val	Arg	Ala 75		Asp	Lys	Lys	Lys 80
				85	His				90					95	
			100					105			-		110	•	Leu
		115					120					125			Asp
	130					135					140				Tyr.
145					150					155					Val ¹
ile.	Glu	Leu	Pro	Val 165	Lys	His	Pro	Glu	Leu 170	Phe	Glu-	Ala	Leu	Gly 175	Ile

Ala	Gln	Pro	Lys 180	Gly	Val	Leu	Leu	Tyr 185	Gly	Pro	Pro	Gly	Thr 190	Gly	Lys
Thr		Leu 195	Ala	Arg	Ala	Val	Ala 200	His	His	Thr	Asp	Cys 205		Phe	Ile
Arg	Val 210	Ser	Gly	Ser	Glu	Leu 215	Val	Gln	Lys	Phe	Ile 220	Gly	Glu	Gly	Ala
Arg 225	Met	Val	Arg	Glu	Leu 230	Phe	Val	Met	Ala	Arg 235	Glu	His	Ala	Pro	Ser 240
				245					250	Gly				255	
			260					265		Arg			270		
		275		_	_		280			Lys		285			
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305	·		-	_	310					Pro 315					320
				325					330	Lys				335	
			340					345		Met Gly			350		
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Trp Lys

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Leu	Ser	Glu 35	Pro	Pro	Arg	Arg	Thr 40		Glu	Ser	Arg	Thr 45		Thr	Arg
Ala	Leu 50		Leu	Pro	Thr	Leu 55	Pro	Met		Lys	60		Ala	Ser	Thr
Glu 65	Pro	Gln	Gly	Pro	Arg 70	Pro	Val		-	Arg 75			Val	Gln	Val 80
Pro	Asp	Asp	Gln	Asp 85	Phe	Arg	Ser	Phe	Arg 90	Ser	Glu	Cys	Glu	Ala 95	Glu
Val	Gly	Тrр	Asn 100	Leu	Thr	Tyr	Ser	Arg 105	Ala	Gly	Val	Ser	Val	Trp	Val
Gln	Ala	Val 115	Glu	Met	Asp	Arg	Thr 120	Leu	His	Lys	Ile	Lys 125	Cys	Arg	Met
Glu	Cys 130	Cys	Asp	Val	Pro	Ala 135	Glu	Thr	Leu	Tyr	Asp 140	Val	Leu	His	Asp
Ile 145	Glu	Туг	Arg	Lys	Lys 150	Trp	Asp	Ser	Asn	Val 155	Ile	Glu	Thr	Phe	Asp 160
Ile	Ala	Arg	Leu	Thr 165	Val	Asn	Ala	Asp	Val 170	Gly	Tyr	Tyr	Ser	Trp 175	Arg
Cys	Pro	Lys	Pro 180	Leu	Lys	Asn	Arg	Asp 185	Val	Ile	Thr	Leu	Arg 190	Ser	Trp
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Pro	Lys 210	Tyr	Pro	Pro	Arg	Lys 215	Asp	Leu	Val	Arg	Ala 220		Ser	Ile	Gln
Thr 225	Gly	Tyr	Leu	Ile	Gln 230	Ser	Thr	Gly-	Pro	Lys 235	Ser	Cys	Val	Ile	Thr 240
Tyr	Leu	Alà	Gln	Val 245	Asp	Pro	Lys	Gly	Ser 250	Leu	Pro	Lys	Trp	Val 255	Val
Acn	Tuc	C		c1-	Dhe	T 0	21-	D			Mak	Y	T		m

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Lys	Ala	Cys 275	Leu	Lys	Tyr	Pro	Glu 280	_	Lys	Gln	Lys	His 285		.Pro	His
Phe	Lys 290	Pro	Trp	Leu	His	Pro 295		Gln	Ser	Pro	Leu 300		Ser	Leu	Ala
Leu 305	Ser	Glu	Leu	Ser	Val 310	Gln	His	Ala	Asp	Ser 315		Glu	Asn	Ile	Asp 320
Glu	Ser	Ala	Val	Ala 325		Ser	Arg	Glu	Glu 330		Met	Gly	Gly	Ala 335	_
Gly	Glu	Gly	Ser 340		Asp	Asp	Thr	Ser 345		Thr					
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Phr	Ala	Trp 35	Xaa	Arg	Ser	Leu	Ile 40	Arg	Pro	Phe	Ser	Met 45	His	Ile	Leu
Pro	Lys 50	Gln	Ser	Gln	Ile	Pro 55	Leu	Lys	Gly	Ala	Asp 60	Ser	Ile	Ser	Ser
Ser 65	Val	Gln	Thr	Leu	Arg 70	Ala	Glu	Arg	Ser	Gly 75	Ser	Gly	Ser	His	Val 80
Chr	Ala	Gln	Asn	Asn 85	Leu	Arg	Asn	Pro	Leu 90	Cys	Pro	Glu	Gly	Ser 95	Leu
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Phe Phe Gly Thr His	Glu Thr Ala Phe	Leu Gly Pro	Tue New You Dhe
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Pro Tyr Lys Glu Tyr	Tye Acn Tye Pho	Clu Ive Con	Non Tue New Torr
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Asn Lys Ser Ser Ser	Glu Gly Gly Asp	Ala Gly Asn	Asp Thr Arg Asn
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<40	0> 9	88			•						٠				-
Ala	Lys	Glr	1 Asp	Pro	Val	Pro	Glu	Gln	Glu	Met	Ser	Pro	Ser	Ile	Ser
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	Pro	Crre	Ten		Cln		Ton		:12		e Para	C ~ ~	. Dh		• • • •
vah	PIC		20					25		Gly			30		Ala
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		Tyr	Thr	Ala	Gly	Pro	Phe	Leu	Val	 . Phe	 Val	Gln	Gln	Glu	Thr.
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				His	Leu	Arg	Glu	Gly	Gly	Trp	Lys	Arg	Leu	Cys	Pro
145					150					155					160
			Leu		Ala	Gly	Ser	Ala		Leu	Lys	Pro	Ser		Asp
		* 1		165			•		170					175	
Phe	Leu	Thr	Gln	Asp	Pro	Ala	Pro	Glv	Ara	Arg	Ara	Val	Glv	Ala	Glv
	,		180					185	5	9	,		190	*****	Cly
Leu	Val	Gly	Gln	Lys	Glu	Ala	Ser	Ala	Gly	Leu	Glu	Asp	Pro	Ser	Ser
Thr	Ser	His	Ser	Val	Ser	Ser	Ser	Trp	Glu	Asn	Leu	Cys	Gln	Ala	Arg
	210	-			• •	215				:: =	220		• •		-
בוג	Va 1	Tle	Glv	Pro	Hig	Glu	Va l	Ser	Glu	Δla	Pro	Ser	Tro		

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85

Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu Pro Lys

Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala Ser Glu 115 120 120 125 125 125 125 125 125 125 125 125 125	Val Leu As	p Pro 100	Glu	Glu	Asp	Leu	Leu 105		Ile	Ala	Lys	Thr 110		Ser
Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu Val Arg 130	Tyr Leu Ar	g Glu	Ser	Gly	Trp	Tyr	Trp	Gly	Ser	Ile	Thr	Ala	Ser	Glu
Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys Thr Thr 145	11	.5 *	٧.	<u>:</u>		120	٠.	÷.,	÷		125		• •	····
Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys Thr Thr 145	Ala Arg Gl	n His	Leu	Gln	Lys	Met	Pro	Glu	Gly	Thr	Phe	Leu	Val	Arg
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Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe Pro Asp 180 Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala Asp Thr 195 Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro Met Pro 210 Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro Pro Ala 230 Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser 245 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 265 Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu 275 Arg Gln Tyr Pro Phe Gln Leu 290	145 1-7	T		150	I:	÷ ;	31.:	 .+-}	155		ೆ .ಆ	2.5.5	41. () 2 (2	160
Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe Pro Asp 180														
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Val Val Ser Leu Val Gln His 195 Tyr Val Ala Ser Cys Thr 205 Ala Asp Thr 200 Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro Met Pro 210 215 220 Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro Pro Ala 225 230 235 Thr Ala Val His Leu Lys Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser 245 255 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 265 270 Ala Asp Val Asp Cys Leu Pro 280 285 Arg Gln Tyr Pro Phe Gln Leu 295 285 <210> 991 221> PRT <213> Homo sapiens 400> 991 Leu His Lys Val Ser Ile Leu Leu Tyr Ser Ala Val Leu Val Ser Phe 15	Leu Asp Se	r Asn	Cys	Leu	Ser	Arg	Pro	Arg	Ile	Leu	Ala	Phe	Pro	Asp
Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro Met Pro 210		. 180	S + 7 .		1	*** *	185	보투	1.45	Ary	eum Litt	190	He	
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Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro Pro Ala 235 240 Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser 245 255 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 260 265 270 Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu 275 285 Arg Gln Tyr Pro Phe Gln Leu 290														
Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro Pro Ala 240 Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser 245 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 260 Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu 275 Arg Gln Tyr Pro Phe Gln Leu 295														
225	210	٦.	* * *		215	2.1	· .	j.		220	2			77. 321.
Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg Ser Ser 255 Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 265 270 Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu 275 285 Arg Gln Tyr Pro Phe Gln Leu 295 <210> 991 <211> 58 <212> PRT <213> Homo sapiens <400> 991 Leu His Lys Val Ser Ile Leu Leu Tyr Ser Ala Val Leu Val Ser Phe 1 5														
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Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg Leu Val 260 270 270 270 270 270 270 270 270 270 27	Thr Ala Va	l Hie	T.011	T.ve	T.e.:	Val	Gln	Pro	Phe	Va l	Ara	Ara	Ser	Ser
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Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp Tyr Leu 275 280 285 285 285 285 285 285 285 285 285 285		٠.										- : •		
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Ser Cys Ile Gly Phe His Cys Ile Tyr Ser Leu Phe Met Leu Asn Leu	1		5			•		10					15	

20 25 Ala Lys Asp Glu His Cys Pro Pro Leu Lys Cys Leu Cys His Phe Glu 35 40 Phe Cys Ala Asn Phe Val Ala Arg Met Arg <210> 992 <211> 203 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (8) <223> Xaa equals any of the naturally occurring L-amino acids <400> 992 Ala His Ala Ser Pro Thr Arg Xaa Glu Ala Arg Val Val Val Arg Cys Leu Pro Ala Cys Val Arg Asp Leu Pro Asp Ser Val Ala Ala Met Ala Ser Asp Glu Gly Lys Leu Phe Val Gly Gly Leu Ser Phe Asp Thr Asn Glu Gln Ser Leu Glu Gln Val Phe Ser Lys Tyr Gly Gln Ile Ser 50 60 Glu Val Val Val Lys Asp Arg Glu Thr Gln Arg Ser Arg Gly Phe Gly Phe Val Thr Phe Glu Asn Ile Asp Asp Ala Lys Asp Ala Met Met Ala Met Asn Gly Lys Ser Val Asp Gly Arg Gln Ile Arg Val Asp Gln 105 100 Ala Gly Lys Ser Ser Asp Asn Arg Ser Arg Gly Tyr Arg Gly Gly Ser 120 Ala Gly Gly Arg Gly Phe Phe Arg Gly Gly Arg Gly Arg Gly Arg Gly 130 135

Phe Ser Arg Gly Gly Gly Asp Arg Gly Tyr Gly Gly Asn Arg Phe Glu

150

Ser Arg Ser Gly Gly Tyr Gly Gly Ser Arg Asp Tyr Tyr Ser Ser Arg 165 Ser Gln Ser Gly Gly Tyr Ser Asp Arg Ser Ser Gly Gly Ser Tyr Arg 185 Asp Ser Tyr Asp Ser Tyr Ala Thr His Asn Glu 200 <210> 993 <211> 252 <212> PRT <213> Homo sapiens <400> 993 Gly Cly Leu Ala Trp Arg Ala Leu Arg Thr Ser Gly Thr Leu Leu Arg ila perkili perkie ila pila lakula pafa lagriga e Tibulane depaa Val Glu Arg Leu Leu Glu Asp Tyr Cys Pro Glu Glu Lys Met Phe . Note that the contract of t Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile 40 1 2 2 1 1 1 1 5 Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr 55 Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly Asp Ile Cys Asn Ala Cys Val Leu Leu Val Lys Arg Trp Lys Lys Leu Pro Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala 100 105 Gly Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu 120 Ser Gly Asn Arg Ile Lys Ser Asn Gln Ile Ser Lys Leu Gln Lys Glu 130 135 eria censo e la comercia de la de-Phe Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ser Ala Ser 150 155 Pro Ala Gln Ser Pro Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp

Thr Glu Met Ala Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu

			180					185					190		
Asp	Leu	Thr 195		Trp	Lys	Arg	Gln 200	Lys	Ile	Cys	Cys	Gly 205		Ile	Tyr
Lys	Gly 210	Arg	Phe	Gly	Glu	Val 215	Leu	Ile	Asp	Thr	His 220	Leu	Phe	Lys	Pro
Cys 225	Cys	Ser	Asn	Lys	Lys 230	Ala	Ala	Ala	Glu	Lys 235		Glu	Glu	Gln	Gly 240
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Arg	Ser	Val 35	Ala	Asn	Met	Gln	Leu 40	Phe	Val	Arg	Ala	Gln 45	Glu	Leu	His
Thr	Phe 50	Glu	Val	Thr	Gly	Gln 55	Glu	Thr	Val	Ala	Gln 60	Ile	Lys	Ala	His
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Ala	Gly	Ala	Pro	Leu 85	Glu	Asp	Glu	Ala	Thr 90	Leu	Gly	Gln	Cys	Gly 95	Val
Glu	Ala	Leu	Thr 100	Thr	Leu	Glü	Val	Ala 105	Gly	Arg	Met	Leu	Gly 110	Gly	Lys
Val	His	Gly 115	Ser	Leu	Ala	Arg	Ala 120	Gly	Lys	Val	Arg	Gly 125	Gln	Thr	Pro

Lys	Val 130	Ala	Lys	Gln	Glu	Lys 135		Lys	Lys	Lys	Thr 140	Gly	Arg	Ala	Lys
Arg	Arg	Met	Gln	Tyr	Asn	Arg	Arg	Phe	Val	Asn	Val	Val	Pro	Thr	Phe
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Gly	Lys	Lys		Gly 165	Pro	Aşņ	Ala		Ser 170		- J*.				ě
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					Pro										
1	- '."	7 . 2	٠.	5	÷ •	1-1	****	.	10	1 7	itu	3.43	- 14 c	15	<u>.</u>
Ala	Ser	Phe	Ser	Arq	Pro	Leu	Ala	Pro	Arq	Arg	Ser	His	Leu	Ser	Ser
				_	44				_	_					
			. :					; 5							•
Leu					Pro										
	1	35	· . •		-: -		.40			•	• • •	45		7	2:
Ala	Glu	Ala	Pro	Pro	Arg	His	Val	Phe	Ala	Ser	Ara	Ara	Lvs	Leu	Glu
										•	i, -				
					Pro										
65			*	2.73	-7 O _i	3 o. A	;	. 4 1	*11. 3	75		. · <u>.</u> .	j. 3	<i>→ UM</i>	.80
Val	Gln	Lvs	His	Pro	His	Thr	Glv	Asp	Thr	Lvs	Glu	Glu	Lvs	Asp	Lvs
Asp	Asp				Glu										
**			100	- :	• . •	÷		105		·			110	· '	
Ile	Ser	Gly	Val	Ile	Ala	Arg	Gly	Asp	Lys	Asp	Phe	Pro	Pro	Ala	Ala
		11.5:										125		:	
		•													
Ala		Val			Gln										Pro
	130		-	•	-	135		•	<i>:</i> .		140	•			• . •
Ser		Ara	Thr	Gln	His	Ile	Gln	Gln	Pro	Ara	Lys				
145	-	_			150					_	_	1.3		; - ;	
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Leu Ala Ala Val Arg Ser Ser Val Pro Arg Ala Gly Gly Val Ser Arg-
                           40
                                                 45
Arg Leu Ala Ala Val Arg Ser Thr Val Leu Cys Arg Ala Val Gly Cys
Ile Leu Ala Glu Leu Leu Ala His Arg Pro Leu Leu Pro Gly Thr Ser
                   70
Glu Ile His Gln Ile Asp Leu Ile Val Gln Leu Leu Gly Thr Pro Ser
                85
                                    90
Glu Asn Ile Trp Pro Gly Phe Ser Lys Leu Pro Leu Val Gly Gln Tyr
                               105
Ser Leu Arg Lys Gln Pro Tyr Asn Asn Leu Lys His Lys Phe Pro Trp
                           120
Leu Ser Glu Ala Gly Leu Arg Cys Cys Thr Ser Cys Ser Cys Thr Thr
                    - 135
Leu Arg Lys Gly Arg Arg Pro Gly Thr Ala Trp Arg Ala Pro Ile Ser
               150
                                      155
Arg Arg Ser Pro Tyr Pro Val Ser Arg Ser Ser Cys Arg Pro Phe Pro
                165
                                   170
Thr Thr Ala Thr Ser Gly Pro Pro Gln Pro Pro Pro Arg Ala Arg Ala
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Ser Ala Val Asn Pro Asp Gly Gly Pro Gly Thr Arg Leu Tyr Ser His
Thr Arg Ser Ser Asp Gln Trp Cys Leu
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                      215
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,1			•	5	_		Ala		10					15	
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	Ile	Pro 35	Pro	Ala	Arg	Leu	Pro 40	Ala	Met	Ala	Asp	Lys .45	Glu	Ala	Ala
Phe	Asp 50			Val	Glu	Glu 55	Arg	Val	Ile	Asn	Glu 60	Glu	Tyr	Lys	Ile
or Trp 65		Lys	Asn				Leu								
Leu	Glu	Trp		Ser 85			Ala								
Pro	Glu	Gly	Lys 100	Asp	Phe	Ser	Ile	His 105	Arg	Leu		Leu	Gly 110	Thr	
Thr	Ser	Asp 115	Glu	Gln	Asn		Leu 120	Val	Ile	Ala	Ser				
Asn	Asp 130	Asp	Ala	Gln	Phe	Asp 135	Ala		His			Ser	Glu	Lys	Gly
	Phe		Gly	Phe	Gly 150	Ser	Val	Ser	Gly	Lys 155	Ile	Glu	Ile	Glu	Ile 160
Lys	Ile	Asn	His	Glu 165	Gly	Glu	Val	Asn	Arg 170	Ala	Arg	Tyr	Met	Pro 175	Gln
Asn	Pro	Cys	Ile 180		Ala	Thr	Lys	Thr 185	Pro	Ser	Ser	Asp	Val 190	Leu	Val
Phe	Asp	Tyr 195		Lys	His	Pro	Ser 200	Lys	Pro	Asp	Pro	Ser 205	Gly	Glu	Cys
Asn	Pro 210	Asp	Leu				Gly					Gly	Tyr	Gly	Leu
Ser	Trp	Asn	Pro	Asn	Leu	Ser	Gly	His	Leu	Leu	Ser	Ala	Ser	Asp	Asp

223					230					235					240
His	Thr	Ile	Cys	Leu 245	Trp	Asp	Ile	Ser	Ala 250		Pro	Lys	Glu	Gly 255	_
Val	Val	Asp	Ala 260	Lys	Thr	Ile	Phe	Thr 265		His	Thr	Ala	Val 270		Glu
Asp		Ser 275		His	Leu	Leu	His 280	Glu	Ser	Leu	,	Gly 285		Val	Ala
	Asp 290	Gln	Lys	Leu	Met	Ile 295			Thr	Arg	Ser 300		Asn	Thr	Ser
Lys 305		Ser	His	Ser	Val 310	Asp	Ala	His	Thr	Ala 315		Val	Asn	Cys	Leu 320
Ser	Phe	Asn	Pro	Tyr 325	Ser	Glu	Phe		Leu 330	Ala	Thr	Gly		Ala 335	
Lys	Thr	Val	Ala 340	Leu	Trp	Asp	Leu	Arg 345	Asn	Leu	Lys	Leu	Lys 350	Leu	His
Ser	Phe	Glu 355	Ser	His	Lys	Asp	Glu 360	Ile	Phe	Gln	Val	Gln 365	Trp	Ser	Pro
His	Asn 370			Ile	Leu	Ala 375	Ser	Ser	Gly	Thr	Asp 380		Arg	Leu	Asn
385		-		-	Lys 390		. •			395					400
				405	Glu				410					415	
			420		Ser			425				_	430		-
•	**	435			Asn		440					445			•
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Gly 465	ser								·						

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Thr 1	Arç	J Pro	Pro	Thr 5		Arg	Pro	Thr	Arg 10		Pro			Lys 15	
Glu	Ala	Pro	20					25					Ala 30	Leu	Lys
Ala	Lys	Lys 35		Val	Leu	Lys	40	Val	His	Ser			Lys		
Ile	Arg	Thr		Pro		Phe 55	Arg	Arg		Lys	60		Arg		Arg
65		Pro			Pro 70	Arg	Lys	Ser	Ala	Pro 75	Arg				Leu 80
	His	Tyr	Ala	85	Ile	Lys		Pro	Leu 90	Thr	Thr			Ala 95	
Lys		Ile		Asp	. Asn	Asn	Thr	Leu 105	Val	. Phe	Ile	Val	Asp 110	Val	Lys
Ala	Asn	Lys 115	His				Gln 120	Ala;	Val	Lys	Lys	Leu 125		Asp	
Asp	Val	Ala	Lys			Thr 135				Pro				Lys	
Ala 145	Tyr	Val	Arg	Leu	Ala 150	•	Asp	Tyr	Asp	•		Asp	Val	Ala	Asn 160
Lys	Ile	Gly	Ile	11e 165				-					•		•
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		omo s	sapie	ens										-	
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Pro 1	Glu	Asn.	Ser	Thr 5	Ser	Ser	Phe:	Leu	Leu 10	Trp.	Gly	Сув	Pro:	Pro-	Ser
Val	Val	Cys;	Phe 20	Thr	Val	Gly	Ser	Pro- 25	Ala-	Arg	Arg	Pro	Gln 30	Cys	Phe

Leu	Arg	Ala	Glu	Met	Ala	Asn	Ser	Gly	Leu	Gln	Leu	Leu	Gly	Phe	Ser
	, -	35					40	-				45	•		,
Met	Ala	Leu	Leu	Gly	Trp	Val	Gly	Leu	Val	Ala	Cys	Thr	Ala	Ile	Pro
	50					55					60				
Gln	Trp	Gln	Met	Ser	Ser	Tvr	Ala	Gly	Asp	Asn	Ile	Ile	Thr	Ala	Gln
65	•				70	•		-	•	75					80
Ala	Met	Tvr	Lvs	Glv	Leu	Trp	Met	Asp	Cvs	Val	Thr	Gln	Ser	Thr	Glv
		-1-	-1-	85					90					95	,
	14-1			•			•			.	-	.			
met	Met	ser	100	гÀг	met	TYF	Asp	105	vai	Leu	Ala	Leu	110	Ala	Ala
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Leu	Gln		Thr	Arg	Ala	Leu	Met	Val	Val	Ser	Leu		Leu	Gly	Phe
		115					120				-	125			
Leu		Met	Phe	Val	Ala		Met	Gly	Met	Lys	-	Thr	Arg	Cys	Gly
	130					135					140				
Gly	Asp	Asp	Lys	Val	Lys	Lys	Ala	Arg	Ile	Ala	Met	Gly	Gly	Gly	Ile
145					150					155					160
Tle	Phe	Tle	Val	Ala	Glv	Leu	Ala	: Ala	Leu	Val	Ala	Cvs	ser.	Trp	Tyr
				165	0-1				170	-		-7-		175	-1-
C1	vi a	C1 -	T10	1701	mb		Dho	<i></i>	2	:	T 011	T 1 0		m b ==	2
GIY	HIS	GIN	180	vai	THE	Asp	Phe	191 185	ASI	Pro	Leu	ire	190	THE	ASN
								-		-					
Ile	Lys														
												-			
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	2> (2 3> Xa	-	uals	ans	, of	the	natu	ırall	lv or	curi	ina	L-an	nino	ació	is
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	0> 10		2	mb	7	T	T	·		n 1 -	C1	7 J -	7 T ~	T 6	C1
Arg	GIN	GIU	Arg	7nr 5	AL G	nys	Lys	ъÀг	10	WIG	сту	wid	MIA	15	GIĀ
					_	_	-								
Ala	Leu	Gly	Pro	Arg	Ala	Gln	Leu	Xaa	Ala	Ala	Ala	Gln	Thr	Asn	Ser

Asn	Ala	Ala 35		Lys	Gln	Leu	Arg 40		Glu	ser	Gln	Lys 45		Arg	Lys
Asn	Pro 50			Pro		Val 55		Val	Val	. Asp	Lys 60		Glu	Glu	Thr
Gln 65		Pro					Lys	Glu	Gly	75		Arg	Val	Gly	Arg 80
Arg	Pro	Asp	Gln	Gln 85	Leu	Gln	Gly	Glu ::::::	Gly 90	Lys	Ile cing	Ile	Asp	Arg	Arg
Pro	Glu	Arg	Arg 100		Pro	Arg	Glu	Arg 105		Phe	Glu	Lys	Pro	Leu	Glu
Glu		Gly 115	Glu	-Gly	:Glÿ	Glu	Phē 120	Ser.	-Val	qeA	TAP g	Pro 125	lle	Ile	Asp
Arg	Pro 130	Ilė	Arg	Gly	Arg	Gly 135	Gly	Ĺeu	Gly	Arg	Gły 140	Ārģ	Gly	Gly	Arg
Gly 145	Arg	Glÿ	Met		Arg 150	Gly	Asp	Gly	Phe	Asp 155	Ser	ÁFĞ	Gly	Lyś	Arg 160
Glu	Phe	Asp	Arg	His 165	Ser	Gly	Ser	Asp	Arg 170	Ser	Ser	Phe	Ser	His 175	Tyr
Ser	Gly	Leú	Lys 180	His	Ğlu	Asp	Ĺyŝ	Arg 185	Gly	Ğly	Ser	ĠĮÿ	Ser 190	His	Aś'n
Trp	Gly	Thr 195	Ϋaľ	Ĺýs	Āsp	Glu	Leu 200	Thr	Asp	Leu	Ãsṗ	Gln 205	Ser	Asn	Val
Tħr	Glu 210	Glu	Thr	Pro	Glu	Gly 215	Glu	Glü	His	His	Přó 220	Val	Ala	Asp	Thr
Glü 225	Asn	Lys	Glu	Asn	Glu 230	Val	Glu	Glu	Val	Lys 235	Glú	Glu	Gly	Pró	Lys 240
Glu	Met	Thr	Leu	Asp 245	Glü	Trp	Lys	Ala	Ile 250	Gln	Asn	Lys	Asp	Arg 255	Ala
Lys	Val	Glu	Phe 260	Asn		Arg	Ĺys	Pro 265	Asn	Glu	Gly	Ala	Asp 270	Gly	Gln
Trp	Lys	Lys 275		Phe		Ĺėu	His 280	Lys	Ser	Lys	Ser	G1u 285	Ğlu	Ala	His
Ala	Glu 290	Asp	Ser	Val	Met	Āsp 295	His	His	Phe	Arg	Lys 300	Pro	Ala	Àsn	Asp

11e 305	Thr	Ser	Gln	Leu	Glu 310	Ile	Asn	Phe	Gly	Asp 315		Gly	Arg	Pro	Gly 320
Arg	Gly	Gly	Arg	Gly 325	Gly	Arg	Gly	Gly	Arg 330		Arg	Gly	Gly	Arg 335	Pro
Asn	Arg	Gly	Ser 340	Arg	Thr	Asp	Lys	Ser 345	Ser	Ala	Ser	Ala	Pro 350	Asp	Val
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	-					-	-				:				
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Pro	Glu	Pro	Pro 20	Pro	Pro	Arģ	Thr	His 25	Tyr	Ser	Asn	Ile	Glu 30	Ala	Asn
Glu	Ser	Glu 35	Glu	Val	Arg	Gln	Phe 40	Arg	Arg	Leu	Phe	Ala 45	Gln	Leu	Ala
Gly	Asp 50	Asp	Met	Glu	Val	Ser 55	Ala	Thr	Glu	Leu	Met 60	Asn	Ile	Leu	Asn
Lys 65	Val	Val	Thr	Arg	His 70	Pro	Asp	Leu	Lys	Thr 75	Asp	Gly	Phe	Gly	Ile 80
Asp	Thr	Cys	Arg	Ser 85	Met	Val	Ala	Val	Met 90	Asp	Ser	Asp	Thr	Thr 95	Gly
Lys	Leu	Gly	Phe 100					Tyr 105		Trp	Asn	Asn	Ile 110		Arg
Trp	Gln _.	Ala 115	Ile	Tyr	Lys	Gln	Phe 120	Asp	Thr	Asp	Arg	Ser 125	Gly	Thr	Ile
Cys	Ser 130	Ser	Glu	Leu	Pro	Gly 135	Ala	Phe	Glu	Ala	Ala 140	Gly	Phe	His	Leu
Asn 145	Glu	His	Leu	Tyr	Asn 150.	Met	Ile	Ile	Arg	Arg 155.	Туг	Ser	Asp		Ser 160

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Gly Asn Met Asp Phe Asp Asn Phe Ile Ser Cys Leu Val Arg Leu Asp
                                                                                  170 . 175
 Ala Met Phe Arg Ala Phe Lys Ser Leu Asp Lys Asp Gly Thr Gly Gln
      180 - 180 - 190
 Ile Gln Val Asn Ile Gln Glu Trp Leu Gln Leu Thr Met Tyr Ser
  The same from the fit, the color of a like than the form they even the like the
 <210> 1002
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 Ile Phe Cys Asp Thr Arg Ser His Glm Val Ala Xaa Gly Trp Phe Arg
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                                                           10
 Ile Pro Gly Leu Lys
    in and the second and
<210> 1003
<211> 109 TOTAL TIP THE
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<221> SITE
<222> (15)-
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Cys Leu Xaa Glu Val Arg Leu Cys Cys Val Asn Gly Gln Ala Leu Pro 25

Gln Pro Thr Pro Gly Lys Val His Leu Phe Ser Gly Leu Tyr Lys Val 35

Ser Trp Gly Pro Val Ala Ser Leu Pro Val Arg Ser Asp Phe Ser Leu Ser Ser Ser Pro Val Gly Glu Thr Lys Pro Asp Trp Gly Ala Gln Gly

Glu His Gly Lys Gly Arg Leu Pro Cys Leu Ser Leu Ala Val Arg Val 85 90 95

Arg Val Thr His Thr Lys Xaa Glu Cys Gly Gln Gln Val 100 105

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<220> <221> SITE

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Lys Ser Ala Ala Leu Gly Leu Ala Ile Ala Gly Ala Val Ala Phe Gly
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Tyr Ser Asn Ile Phe Val Thr Ser Pro Ser Pro Asp Asn Leu His Thr 35 40 45

Leu Phe Glu Phe Val Phe Lys Gly Phe Asp Ala Leu Gln Tyr Gln Glu 50 55 60

His 65	Leu	Asp	Tyr	Glu	Ile 70	Ile	Gln	Ser	Leu	Asn 75	Pro	Glu	Phe	Asn	Eys
Ala	Val	Ile	Arg	Val 85	Asn	Val	Phe	Arg	Glu 90	His	Arg	Gln	Thr	Ile 95	Gln
Tyr	Ile	His	Pro 100	Ala	Asp	Ala	Val	Lys 105		Gly	Gln	Ala	Glu 110		Val
Val	Ile	Asp 115		Ala	Ala	Ala	Ile 120		Leu	Pro	Leu	Val 125	Lys	Ser	Leu
Leu	130		Tyr		Val	Phe 135		Ala	Ser	Thr	Ile 140	Asn	Gly	Tyr	Glu
145			Arg	Ser	Leu 150	Ser	Leu	Lys	Leu		Gln		Leu	Arg	Gln 160
					Gln										
					•				٠					•	
Thr					Ala										
٠.			160					100	7 -		-		13.0		••••
					Tyr										
:	٠.	195			.:		200	· ·		in Firs	` .= 11	205	·/- ·		. :
Asn	Asp	Leu	Leu	Суз	Leu	Asp	Cys	Leu	Asn	Ile	Thr	Arg	Ile	Val	Ser
					2							2			
Gly 225		Pro			Glu 230										
						**									
Thr	Leu	Phe			His					Val					
				245	1.4.			• ,	2-50		:			-255	
Met	Ala	Leu	Tyr 260	Val	Ala	Ser	His	Tyr 265	Lys	Asn	Ser	Pro	Asn 270	Asp	Leu
Gln	Met	275	Ser	Asp	Ala	Pro	Ala 280	His	His	Leu	Phe	Cys 285	Leu	Leu	Pro
Pro	Val			Thr	Gln	Asn	Ala	Leu	Pro	Glu	Val	Leu	Ala	Val	Ile
Gln	Val	Cys	Leu	Glu	Gly	Glu	Ile	Ser	Arq	Gln	Ser	Ile	Leu	Asn	Ser
305		• -								315					
Leu	Ser	Arg		Lys 325	Lys	Ala	Ser	Gly	Asp 330	Leu	Ile	Pro	Trp	Thr 335	

Ser	Glu	Gln	Phe 340		Asp	Pro	Asp	Phe		Gly	Leu	Ser	Gly 350		Arg
Val		Arg 355		Ala	Val	His	Pro 360		Tyr	Gln	Gly	Met 365		Tyr	Gly
Ser	Arg 370		Leu	Gln	Leu	Leu 375	Gln	Met	Tyr	Tyr	Glu 380		Arg	Phe	Pro
Cys 385	Leu	Glu	Glu	Lys	Val 390	Leu	Glu	Thr	Pro	Gln 395		Ile	His	Thr	Val 400
Ser	Ser	Glu	Ala	Val 405	Ser	Leu	Leu	Glu	Glu 410	Val	Ile	Thr	Pro	Arg 415	-
Asp	Leu	Pro	420	Leu	Leu	Leu		Leu 425		Glu		Pro	Ala 430	Glu	Arg
Leu	Asp	Туг 435	Leu	Gly	Val	Ser				Thr	Pro	Arg 445	Leu	Leu	Lys
	Trp 450	Lys	Arg	Ala	Gly		Val	Pro	Val	Tyr	Leu 460	Arg	Gln	Thr	Pro
Asn 465	Asp	Leu	Thr	Gly	Glu 470	His	Ser	Cys	Ile	Met 475	Leu	Lys	Thr	Leu	Thr 480
Asp	Glu	Asp	Glu	Ala 485	Asp	Gln	Gly	Gly	Trp 490	Leu	Ala	Ala	Phe	Trp 495	Lys
Asp	Phe	Arg	Arg 500	Arg	Phe	Leu	Ala	Leu 505	Leu	Ser	Tyr	Gln	Phe 510	Ser	Thr
Phe	Ser	Pro 515	Ser	Leu	Ala	_	Asn 520	Ile	Ile	Gln	Asn	Arg 525	Asn	Met	Gly
Lys	Pro 530	Ala	Gln	Pro	Ala	Leu 535	Ser	Arg	Glu	Glu	Leu 540	Glu	Ala		•
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)

	,, ,,														
Asp	Ala	Ala	Asp	Thr	Ile	Glu	Thr	Asp	Thr	Ala	Thr	Ala	Asp	Thr	Thr
1				5					10	:			•	15	~
•				_											
								_		_	_		_	_	_
Val	Ala	Asn	Asn	Val	Pro	Pro	Ala	Ala	Thr	Ser	Leu	Ile	Asp	Leu	Trp
			20		-			25					30		
			-												
_		_	- -					~ L _	•	- 11-	61	C1	D	N	N1 -
Pro	Gly	Asn	Gly	Glu	Gly	Ala	Ser	Thr	Leu	GIN	GTÅ	GIU	PIO	AIG	Ald
		35	. :			t. /*	40		·	- :		- 45	: "		
		: :					: .:				_	5		•	
· .	m -	D	D	C	C1	mb~	Glu	1/2]	Th-	Lau	Ala	Glu	t/a l	Pro	T.eu
Pro	Thr	PFO	Pro	ser	GIA	THE	GIU	val	1111	Leu	AIG.	GIU	Val	110	204
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T.e.11	Aen	Glu	Va 1	Δla	Pro	Glu	Pro	Leu	Leu	Pro	Ala	Xaa	Glu	Glv	Cvs
	nsp.				70	-				75			,	. .	80
65	• • •		4					÷ .		/3					. 00
Ala	Thr	Leu	Leu	Asn	Phe	Asp	Glu	Leu	Pro	Glu	Pro	Pro	Ala	Thr	Phe
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Cys	Asp	Pro	Glu	Glu	Val	Glu	Gly	Glu	Pro	Leu	Ala	Ala	Pro	Gln	Thr
- ·	. 7-		100	-:		**		105				·.	.110		m 1 a.
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Pro	Thr	Leu	Pro	Ser	Ala	Leu	Glu	Glu	Leu	Glu	GIn	Glu	GIn	GIu	Pro
-	٠.	115		·· ",	·	٠. ٠	120					125	1 1	. •	
	_	•	_		~ L			61			63 m	*	~1	~ 1	m h
GIU	Pro	His	Leu	Leu	Thr	Asn	Gly	GIU	Thr	Thr	GIN	rys	GIU	GIY	Thr
GIU	130	His	. Leu	rea	THE	Asn -135	Gly	GIU.	Thr	Thr	140	.∵	GIU.	GIY.	The
GIU	130	His	Leu	Leu	THE	Asn -135	Gly	GIU	rnr	Thr	140	ъys .У	- GIU	GIY	Thr
	130					-135					.140	.9		-	
Gln	130 Ala	Ser	Glu	Gly	Tyr	-135 Phe	Ser	Gln	ser	Gln	140 Glu	 Glü	Glu	Phe	Ala
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M		.	**- 1	63	~ 1	-:	~1 -	Dh.	D	**- 3	m>	•	a 1	-1-	
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Asn Asp Tyr Lys Leu Arg Lys Arg Lys Thr Phe Glu Asp Asn Ile Arg

				85					90					95	•
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Glu	Ser	Leu 115		Glu	Ile	Gln	Arg 120		Arg	Ser	Ile	Tyr 125		Arg	Ala
Leu	Asp 130		Asp		Arg	Asn 135		Thr	Leu	Trp	Leu 140		Tyr	Ala	Glu
Met 145					Arg 150										
Arg	Ala	Ile	Thr	Thr 165	Leu	Pro	Arg	Val	Asn 170	Gln	Phe	Trp	Tyr	Lys 175	Tyr
Thr 	Tyr	Met	Glu 180	Glu	Met								Arg 190		Val
Phe		_	Trp		Glu :	_							_		Ser
_	Ile 210	Asn			Leu	_	Tyr	Lys	Glu	Val	Asp 220	Arg	Ala	Arg	Thr
Ile 225	Tyr	Glu	Arg	Xaa	Val 230	Leu	Val	His	Pro	Asp 235	Val	Lys	Asn	Trp	Ile 240
				245	Glu				250		٠			255	
Lys	Val	Tyr	Glu 260	Arg	Ala	Val	Glu	Phe 265	Phe	Gly	Asp	Glu	His 270	Met	Asp
-		275			Ala		280	, -				285	·	_	
	290		-		Val	295	-	•	-		300	_	·		
305					Glu 310					315					320
			_	325	Arg	_			330					335	
			340		Glu.			345					350		
Ala	Trp	Phe	Asp	Tvr	Leu	Ara	Leu	Val	Glu	Ser	ASD	Ala	Glu	Ala	Glu

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Ala	val 370		Glu	Val	Tyr	Glu 375		Ala	ı Ile	e Ala	380		l Pro	Pro	ıl.
Glr 385	Glu	Lys	Arg	His	Trp 390		Arg	Туг	: Ile	395		Tr	o Ile	: Asn	Ту: 40
Ala	Leu	Tyr	Glụ	Glu 405		Glu	Ala	Lys	410		ής Gly	Arg	ı Lür	Arg 415	
Val	Tyr	Gln	Ala 420	Ser	Leu	Glu	Leu	Ile 425		His	Lys	Lys	Phe 430		Phe
Xaa	Lys	Met 435	Trp	Ile	Leu	Tyr	Ala 440	Glņ	Phe	Glu	Ile	Arg • 445	Gln	Lys	Ası
Leu	Ser 450		Ala	Arg	Arg	Ala 455	Leu	Gly	Thr	Ser	Ile 460		Lys	Cys	Pro
Lys 465		Lys	Leu	Phe	Lys 470	Val	Tyr	Ile	Glu	Leu 475		Leu	Gln		Arc 480
Glu	Phe	Asp	Arg	Cys 485	Arg	Lys	Leu	Tyr	Glu 490	Lys	Phe	Leu	Glu	Phe 495	Gly
Pro	Glu	Asn	Су <u>я</u> 500	Thr	Ser	Trp	Ile	Lys 505	Phe	Ala	Glu	Leu	Glu 510	Thr	Ile
Leu	Gly	Asp 515	Ile	Asp	Arg	Ala	Arg 520	Ala	Ile	Tyr	Glu	Leu 525	Ala	Ile	Ser
	530					535		~			540		Tyr		_
545					550					555			Leu	,	560
				565			٠		570		•		Ser	575	
			580					585					Lys 590	.•	
		595			·		600					605	Glu	•	-
	610					615				Arg	Ser 620	Phe	Glu	Glu	Glu
he	Glv	ጥኮተ	Ala	Sar	Acn	T	C1	A	17-1	A	T ***	T		D	~ 3

625					630					635	•				640
Lys	Val	Lys	Lys	Arg 645		Lys	Val	Gln	Thr 650	_	Asp	Gly	Ser	Asp 655	
Gly	Trp	Glu	Glu 660	туг	Phe	Asp	Tyr	Ile 665		Pro	Glu	Asp	Ala 670		Asn
Gln	Pro	Asn 675	Leu	Lys	Leu	Leu	Ala 680		Ala	Lys	Leu	Trp	_	Lys	Gln
Gln	Gln 690	Glu	Lys	Glu	Asp	Ala 695	Glu	His	His	Pro	700		Asp	Val	Asp
Glu 705	Ser	Glu	Ser							•	•	· •	•		
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Ser	Val	Ser	Trp 20	Met	Leu	Leu	Ser	Cys 25	Leu	Met	Leu	Leu	Ser 30	Gln	Val
Gln	Gly	Glu 35	Glu	Pro	Gln	Arg	Glu 40	Leu	Pro	Ser	Ala	Arg 45	Ile	Arg	Cys
Pro	Lys 50	Gly	Ser	Lys	Ala	Tyr 55	Gly	Ser	His	Cys	туг 60	Ala	Leu	Phė	Leu
Ser .65	Pro	Lys	Ser	Trp	Thr 70	Asp	Ala	Asp	Leu	Ala 75	Cys	Gln	Lys	Arg	Pro 80
Ser	Gly	Asn	Leu	Val 85	Ser	Val	Leu	Ser	Gly 90	Ala	Glu	Gly	Ser	Phe 95	Val
Ser	Ser	Leu	Val 100	Lys	Ser	Ile	Gly	Asn 105	Ser	туг	Ser	туг	Val	Trp	Ile
Gly	Leu	His 115	Asp	Pro	Thr	Gln	Gly 120	Thr	Glu	Pro	Asn	Gly 125	Glu	Gly	Trp
Glu	Trp 130	Ser	Ser	Ser	Asp	Val 135	Met	Asn	Tyr	Phe	Ala 140	Trp	Glu	Arg	Asn

145		1111	116	. ser	150		GIY	nis	cys	155		Leu	ser	Arg	160
Thr	Ala	Phe	Leu	Arg 165		Lys	Asp	Tyr	170		Asn	Val	Arg	Leu 175	
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Ile	Asn	Ala 35	Ile	Asp	Thr	Gly	Arg 40	Phe	Pro	Arg	Leu	Leu 45	Thr	Arg	Ile
Leu	Gln 50	Lys	Leu	His	Leu	Lys 55	Ala	Glu	Ser	Ser	Phe 60	Ser	Glu	Glu	Ğlu
31u 65	Glu	Lys	Leu	Gln	Ala 70	Ala	Phe	Ser	Leu	Glu 75	Lys	Gln	Asp	Leu	His 80
Leu	Val	Leu	Glu	Thr 85	Ile	Ser	Phe	Ile	Leu 90	Glu	Gln	Ala	Val	Tyr 95	His
Asn	Val	Lys	Pro 100	Ala	Ala	Leu	Gln	Gln 105	Gln	Leu	Glu	Asn	Ile 110	His	Leu
Arg	Gln	Asp 115	Lys	Ala	Glu	Ala	Phe 120	Val	Asn	Thr	Trp	Ser 125	Ser	Met	Gly
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ln	Ala	Lys		Lys	Ser	Pro	Gln		Val	Leu	Gln	Leu	Gly	Val	Asn

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Met Ser Leu Ser Gln Ser Arg Ser Ser Lys Ser Ala Pro Glu Gly Gly

			180)				185	5				190)	
Thr	Ile	11e		Met	Pro	Pro	Glu 200		туг	Glu	Pro	205		ı Lys	s Se
Arg	Ala 210		Ile	Lys	His	Asp 215		туг	Ser	Tyr	Ala 220		l Ile	Thi	Tr
Glu 225		Leu	Ser	Arg	Lys 230		Pro	Phe	e Glu	Asp 235		Thr	Asn	Pro	240
Gln	Ile	Met	туг	Ser 245	Val	Ser	Gln	Gly	His 250		Pro	Val	. Ile	255	
Glu	Ser	Leu	Pro 260		Asp	Ile	Pro	His 265		Ala	Arg	Met	1le 270		Let
Ile	Glu	Ser 275	Gly	Trp	Ala	Gln	Asn 280	Pro	Asp	Glu	Arg	Pro 285		Phe	Leu
Lys	Cys 290	Leu	Ile	Glu	Leu	Glu 295	Pro	Val	Leu	Arg	Thr 300	Phe	Glu	Glu	Ile
Thr 305	Phe	Leu	Glu	Ala	Val 310	Ile	Gln	Leu	Lys	Lys 315	Thr	Lys	Leu	Gln	Ser 320
Val	Ser	Ser	Ala	Ile 325	His	Leu	Cys	Asp	Lys 330	Lys	Lys	Met	Glu	Leu 335	Ser
Leu	Asn	Ile	Pro 340	Val	Asn	His	Gly	Pro 345	Gln	Glu	Glu	Ser	Cys 350	Gly	Ser
Ser	Gln	Leu 355	His	Glu	Asn	Ser	Gly 360	Ser	Pro	Glu	Thr	Ser 365	Arg	Ser	Leu
Pro	Ala 370	Pro	Gln	Asp	Asn	Asp 375	Phe	Leu	Ser	Arg	Lys 380	Ala	Gln	Asp	Cys
Tyr 385	Phe	Met	Lys	Leu	His 390	His	Cys	Pro	Gly	Asn 395	His	Ser	Trp	Asp	Ser 400
Thr	Ile	Ser	Gly	Ser 405	Gln	Arg	Ala	Ala	Phe 410	Cys	Asp	His	Lys	Thr 415	Thr
Pro	Cys	Ser	420	Ala	Ile	Ile	Asn	Pro 425	Leu	Ser	Thr	Ala	430	Asn	Ser
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31·u	Asp	Ile	Val	Asn	Gln	Met	Thr	Glu	Ala	Cvs	Leu	Asn	Gln	Ser	Len

				•				-							
	450					455					460				
Asp	Ala	Leu	Leu	Ser	Arg 470	Asp	Leu	Ile	Met	Lys 475	Glu	Asp	Tyr	Glu	Leu 480
Val	Ser	Thr	Lys	Pro 485	Thr	Arg	Thr	Ser	Lys 490	Val	Arg	Gln	Leu	Leu 495	Asp
Thr	Thr	Asp	Ile 500	Gln	Gly	Ġlu	Glu	Phe 505	Ala	Lys	Val	Ile	Val 510	Gln	Lys
Leu	Lys	Asp 515	Asn	Lys	Gln	Met	Gly 520	Leu	Gln	Pro	Tyr	Pro 525	Glu	Ile	Leu
Val	Val 530	Ser	Arg	Ser	Pro	Ser 535	Leu	Asn	Leu	Leu	Gln 540	Asn	Lys	Ser	Met
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Arg	Glu	Val- 35	Asp	Leu	Leu	Arg	Ala 40	Val	Ile	Ser	Gln	Thr 45	Leu	Gln	Arg
Ser	Leu 50	Ala	Lys	Tyr	Ala	Ġlu 55	Leu	Asp	Arg	Glu	Asp	Asp	Phe	Cys	Glu
Ala 65	Ala	Glu	Ala	Pro	Asp 70	Ile	Gln	Pro	Lys	Thr 75	His	Gln	Lys	Pro	Glu 80
Ala	Arg	Met	Pro	Arg 85	Leu	Ser	Gln	Gly	Lys 90	Gly	Pro	Asp	Ile	Phe 95	His
Arg	Leu	Gly	Pro 100	Leu	Ser	Val	Phe	Ser 105	Ala	Lys	Asn	Arg	Trp 110	Arg	Leu

Val Gly Pro Val His Leu Thr Arg Gly Glu Gly Phe Gly Leu Thr

Leu	Arg 130	Gly	Asp	Ser	Pro	Val 135	Leu	Ile	Ala	Ala	Val 140	Ile	Pro	Gly	Ser
Gln 145	Ala	Ala	Ala	Ala	Gly 150	Leu	Lys	Glu	Gly	Asp 155	Tyr	Ile	Val	Ser	Val 160
Asn	Gly	Gln	Pro	Cys 165	Arg	Trp	Trp	Arg	His 170	Ala	Glu	Val	Val	Thr 175	Glu
Leu	Lys	Ala	Ala 180	Gly	Glu	Ala	Gly	Ala 185	Ser	Leu	Gln	Val	Val 190	Ser	Leu
Leu	Pro				Leu					_	-	-			
	Gly 210	Pro	Arg	Gly	Leu	Leu 215	Arg	Ser	Gln	Arg	Glu 220	His	Gly	Cys	Lys
Thr 225	Pro	Ala	Ser	Thr	Trp 230	Ala	Ser	Pro	Arg	Ala 235	Leu	Leu	Asn	Trp	Ser 240
Arg	Lys [.]	Ala	Gl'n	Gln 245	Gly	Lys	Thr	Gly	Gly 250	Cys	Pro	Ser	Pro	Val 255	Pro
Gln		-			-	- ;				-	* <u>.</u>			, ,,	
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Ser	Leu	Leu	Ser 20		Trp				Ala					Gln	Gly
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Ala	Ala 50	His	Cys		Tyr	Asp 55							Trp		Ile
Gln 65		Gly		Val	Ser 70			Asp					Ser		Leu 80

Val Glu Lys Ile Val Tyr His Ser Lys Tyr Lys Pro Lys Arg Leu Gly Asn Asp Ile Ala Leu Met Lys Leu Ala Gly Pro Leu Thr Phe Asn Glu 105 Met Ile Gln Pro Val Cys Leu Pro Asn Ser Glu Glu Asn Phe Pro Asp 120 Gly Lys Val Cys Trp Thr Ser Gly Trp Gly Ala Thr Glu Asp Gly Ala 135 Gly Asp Ala Ser Pro Val Leu Asn His Ala Ala Val Pro Leu Ile Ser 150 155 · Asn Lys Ile Cys Asn His Arg Asp Val Tyr Gly Gly. Ile Ile Ser Pro 165 170 Ser Met Leu Cys Ala Gly Tyr Leu Thr Gly Gly Val Asp Ser Cys Gln 185 Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Glu Arg Arg Leu Trp Lys Leu Val Gly Ala Thr Ser Phe Gly Ile Gly Cys Ala Glu Val Asn Lys Pro Gly Val Tyr Thr Arg Val Thr Ser Phe Leu Asp Trp Ile His Glu 235 230 Gln Met Glu Arg Asp Leu Lys Thr 245 <210> 1018 <211> 224 <212> PRT <213> Homo sapiens

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Ile	Leu	Суз	Ser	Tyr 85	Leu	Pro	Asp	Glu	Phe 90	Ile	Glu	Cys	Glu	Asp 95	Pro
Val	Asp	His	Val	Gly	Asn	Ala	Thr	Ala 105	Ser	Glņ	Glu	Leu	Gly 110	Tyr	Gly
Cys	Leu	Lys 115	Phe	Gly	Gly	Gln	Ala 120	Tyr	Ser	Asp	Val	Glu 125	His	Thr	Ser
Val	Gln 130	Cys	His	Ala	Leu	Asp 135	Gly	Ile	Glu	Cys	Ala 140	Ser	Pro	Arg	Thr
Phe 145	Leu	Arg	Glu	Asn	Lys 150	Pro	Cys	Ile	Lys	Tyr 155	Thr	Gly	His	Tyr	Phe 160
Ile	Thr	Thr	Leu	Leu 165	Tyr	Ser	Phe	Phe	Leu 170	Gly	Cys	Phe	Gly	Val 175	Asp
Arg	Phe	Cys	Leu 180	Gly	His	Thr	Gly	Thr 185	Ala	Val	Gly	Lys	Leu 190	Leu	Thr
Leu	Gly	Gly 195	Leu	Gly	Ile	Trp	Trp 200	Phe	Val	Asp	Leu	Ile 205	Leu	Leu	Ile
Thr	Gly 210	Gly	Leu	Met	Pro	Ser 215	Asp	Gly	Ser	Asn	Trp 220	Cys	Thr	Val	Tyr
·				Ē	- •						•				
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Lys Val Tyr Ala Ser Leu Asn Lys Tyr Met Leu Leu Asn Lys Pro Tyr

His Ser Leu Arg Asn Cys Ile Tyr Phe Ile Ile Cys Pro Phe Arg Asn 35 40 45

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20

Gln Val Phe Cys Ile 50

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<213> Homo sapiens

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Met Phe Lys Cys Ile Gly Phe Gly Phe Ser Met Tyr Lys Leu Pro Tyr 20 25 30

Leu Leu Met Ser Ile Phe Cys Leu Phe Asn Phe Val Tyr Leu Leu Phe
35 40 45

Cys Phe Trp Ile His Phe Leu Ile Arg Ser His Met Ile Asn Ile Ile 50 55 60

Ser Ile Val Ile Ile Pro 65 70

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Cys Arg Gly Gly Asp Ala Asp Ser Arg Ala Pro Phe Thr Pro Thr 35 40 45

Trp Pro Arg Ser Arg Glu Arg Glu Ala Ala Ala Phe Arg Glu Ser Leu 50 55 60

Asn Arg His Arg Tyr Leu Asn Ser Leu Phe Pro Ser Glu Asn Ser Thr 65 70 75 80

Ala Phe Tyr Gly Ile Asn Gln Phe Ser Tyr Leu Phe Pro Glu Glu Phe

				85					90					95	
Lys	Ala	Ile	Tyr 100	Leu	Arg	Ser	Lys	Pro 105		Lys	Phe	Pro	Arg 110	_	Ser
Ala	Glu	Val 115	His	Met	Ser	Ile	Pro 120	Asn	Val	Ser	Leu	Pro 125	Leu	Arg	Phe
Asp	Trp 130	Arg	Asp	Lys		Val 135	Val	Thr	Gln	Val	AF9 140	Asn	Gln	Gln	Met
Cys 145	Gly	Gly	Cys	Trp	Ala 150	Phe	Ser	Val	Val	Gly 155	Ala	Val	Glu	Ser	Ala 160
Tyr	Ala	Ile	Lys	Gly 165	Lys	Pro	Leu	Gľu	Asp 170	Leu	Ser	Val	Gln	Gln 175	Val
Ile	Asp	Cys	Ser 180	Tyr	Asn	Asn	туг	Gly 185	Cys	Asn	Gly.	Glÿ	Ser 190	Thr	Leu
Asn	Ala	Leu 195	Às'n	Trp	Leu	Asn	Lys 200	Met	Gln	Val	Lys	Leu 205	Val	Lys	Asp
Ser	Glu 210	Tyr	Pro	Phe	Lys	Ala 215		Asn	Gly	Leu	Cys 220	His	Ťyr	Phe	Ser
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Leu	Val	Val	11e 260	Val	Asp	Ala	Val	Ser 265	Trp	Gln	Asp	Tyr	Leu 270	Gly	Gly
İle	Ile	Gln 275	His	His	Cys	Ser	Ser 280	Gly	Glu	Ala	Asn	His 285	Alá	Val	Leu
Ile	Thr 290	Gly	Phe	Asp	Lyś	Thr 295		Ser	Thr	Pro	Tyr 300	Trp	Ile	Val	Arg
Asn 305	Ser	Trp	Ğly	Ser	Ser 310	Trp	Gly	Val	Asp	Gly 315	Tyr	Ala	His	Val	Lys 320
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                            40
Ser His Gly Arg Val Gly Ala Thr Ala Ala Val Tyr Ser Ala Ala Ile
                       55
Leu Glu Tyr Leu Thr Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ser
 65
                   70
                            75 80
Lys Asp Leu Lys Val Lys Arg Ile Thr Pro Arg His Leu Gln Leu Ala
                85
                                   90
Ile Arg Gly Asp Glu Glu Leu Asp Ser Leu Ile Lys Ala Thr Ile Ala
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Gly Gly Val Ile Pro His Ile His Lys Ser Leu Ile Gly Lys Lys
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Gly Gln Gln Lys Thr Val
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<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
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<40	0> 1	023.					-								
Gly	Leu	Phe	Gln	Thr	Cys	Ile	His	Leu	Leu	Thr	Leu	Pro	Val	Leu	Va:
	· • • •			. 5		• • •			10		:	•		15	
His	Gly	Glu	Leu 20		Ala	Pro	Pro	Arg 25		Leu	Arg	Arg	Ala 30		Gly
Xaa	Pro	Trp 35		Leu	Val	Thr	Ser 40		Xaa	Ser	Leu	Arg 45	Pro	Ser	Gly
Pro	Cys 50		Arg	Pro	Gly	Arg 55		Leu	Leu	Pro	Ser 60	_	Ala	Pro	Ala
Ala 65	Arg	Xaa	Pro	Trp	Gly 70	Gly	Val	Val	Trp	Cys 75	Trp	Glu	Gly	Val	Leu 80
Gln	Gly	Glu	Glu	Asp 85	Leu	Glu	Gly	Leu	Gly 90		Ala	Val	Leu	Asn 95	Arg
Leu	Thr	Leu	Arg 100	Arg	Pro	Leu	Ser	Ala 105	Ala	Leu	Leu	Phe	Ile 110	Thr	Val
Pro	His	Ser 115	Gly	Arg	Arg	Ser	Pro 120	Val	Ala	Gly	Gln	Val 125	Pro	Met	Ala
Cys	Ser 130	Leu	Glu	Pro	Asp	Phe 135	Arg	Cys	Phe	Gly	Ile 140	Arg	Ser	Pro	Gln
His 145	Arg	Gln	Val	His	Pro 150	Ile	Ile	Thr	Leu	Pro 155	Val	Pro	Gly	Trp	Ala 160
Gly	Asp	Ser	Gly	Thr 165	Val	Met	Pro	Gly	Ala 170	Arg	Thr	Ala	Ala	Leu 175	Pro
Leu	His	Thr	Asp 180	Gly	Leu	Gly	Val	Ala 185	Leu	Arg	Pro		Pro 190	Thr	Leu
Ile	Ser	Gly 195	Arg	Gly	Ser	Pro	Glu 200	Trp	Ser	Leu	Val	Arg 205	Ala	Val	Ala
Lys	Pro 210	Ala	Val	Ser	Phe	Leu 215	His	Lys	Val	Pro	Pro 220	Pro	Leu	Ser	Val
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Gln Gly Lys Lys Arg Ala Gly Asn Phe Ala Ile Met Glu Ile Gln Cys
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Pro Ala Leu Arg Lys Thr Leu Pro Ile Leu Phe Gly Ser Leu Arg Arg
                                 25
Cys Leu Cys Leu Ser Asp Lys Tyr Ser Gln Ala Cys His Pro Leu Gly
                    40
         35
Ser Lys Val Arg Arg Cys Arg Lys Pro Gly Pro Arg Asp Arg Gln Leu
Thr Arg Val Asp Lys Ser Pro Glu Met Trp Cys Ile Val Leu Phe Ser
Leu Leu Ala Trp Val Tyr Ala Glu Pro Thr Met Tyr Gly Glu Ile Leu
                 85
                                    90
Ser Pro Asn Tyr Pro Gln Ala Tyr Pro Ser Glu Val Glu Lys Ser Trp
                               105
Asp Ile Glu Val Pro Glu Gly Tyr Gly Ile His Leu Tyr Phe Thr His
Leu Asp Ile Glu Leu Ser Glu Asn Cys Ala Tyr Asp Ser Val Gln Ile
                        135
Ile Ser Gly Asp Thr Glu Glu Gly Arg Leu Cys Gly Gln Arg Ser Ser
                   150
                                       155 . . . .
Asn Asn Pro His Ser Pro Ile Val Glu Glu Phe Gln Val Pro Tyr Asn
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Pro	Glu	His	Val 580	Phe	Ile	His	Pro	Gly 585	Trp	Lys	Leu	Leu	Glu 590	Val	Pro
Glu	Gly	Arg 595	Thr	Asn	Phe	Asp	Asn 600	Asp	Ile	Ala	Leu	Val ⁻ 605	Arg	Leu	Lys
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Thr 625	Ser	Ser	Asp -	Tyr	Asn 630	Leu	Met	Asp	Gly	Asp 635	Leu	Gly	Leu	Ile	Ser 640
Gly	Trp	Gly	Arg	Thr 645		Lys	Arg	Asp	Arg 650	Ala	Val	Arg	Leu	Lys 655	Ala
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Glu	Lys	Pro 675	Thr	Ala	Asp	Ala	Glu 680	Ala	Tyr	Val	Phe	Thr 685	Pro	Asn	Met
Ile	Cys 690	Ala	Gly	Gly	Glu	Lys 695	Gly	Met	Asp	Ser	Cys 700	Lys	Gly	Asp	Ser
Gly 705	Gly	Ala	Phe	Ala	Val 710	Gln.	Asp	Pro	Asn	Asp 715	Lys	Thr	Lys	Phe	Tyr 720
Ala	Ala	Gly	Leu	Val 725	Ser	Trp	Gly	Pro	Gln 730	Cys	Gly	Thr	Tyr	Gly 735	Leu
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Ala	Pro	Arg	Thr	Glÿ	Met	Leu	Leu	Gly	-Leu	Ala	Ala	Met	Glü	Leu	Lys
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Phe	Ala	Ser		Val	Gln	Phe	Val	Leu	Arg	Arg	Thr	Gly	Pro	Ser	Leu
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Ile			Ser	Leu	Pro		Lys	Pro	Arg	Xaa	Ala	Leu	Gly	Cys	Glu
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Gln Ile Tyr Glu His Asn Glu Ala Ala Leu Phe Met Asp His Ser Gly
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Met Leu Val Met Leu Pro Phe Asp Leu Arg Ile Pro Phe Ala Arg Tyr
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Val Ala Arg Asn Asn Ile Leu Asn Leu Lys Arg Tyr Cys Ile Glu Arg
Val Phe Arg Pro Arg Lys Leu Asp Arg Phe His Pro Lys Glu Leu Leu
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110

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Ala 145		Gln	Glu	Arg	Asn 150	Tyr	Ser	Ile	Tyr	Leu 155	Asn	His	Thr	Met	Leu 160
Leu	Lys	Ala	Ile	Leu 165	Leu -	His	Cys	Gly	Ile 170	Pro	Glu	Asp	Lys	Leu 175	Ser
Gln	Val	Tyr	Ile 180	Ile	Leu	туг	Asp	Ala 185	Val	Thr	Glu	Lys	Leu 190	Thr	Arg
Arg	Glu	Val 195	Glu	Ala	Lys	Phe	Cys 200	Asn	Leu	Ser	Leu	Ser 205	Ser	Asn	Ser
Leu	Cys 210	Arg	Leu	Tyr	Lys	Phe 215	Ile	Glu	Gln	Lys	Gly 220	Asp	Leu	Gln	Asp
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Asp	Leu	Leu 355	Val	Val	Ser	Xaa	Gly 360	Gln	Met	Ser	Met	Ser 365	Arg	Ala	Ile
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Tyr 385	Asp	Trp	Ser	Gln	Ser 390	Gln	Glu	Glu	Leu	Gln 395	Glu	Туr	Суз	Arg	His 400
His	Glu	Ile	Thr	Tyr 405	Val	Ala	Leu	Val	Ser 410	Asp	Lys	Glu	Gly	Ser 415	His
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Leu	Thr	Gln	Leu	Leu	His	Phe	Ser	Asn	Leu	Хаа	GI%	Glu	Tvr	Lvs	Tle
			20					25			,		30	-	
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ASI	ser			Leu	GIn	Asn	Ile	Leu	Asp	Ala	Gly	Phe	Gln	Met	Pro
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Thr	Pro	Ile	Gln	Met	Gln	Ala	Ile	Pro	Val	Met	Leu	His	Glv	Ara	Glu
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		Ala	Ser	Ala	Pro	Thr	Gly	Ser	Gly	Lys	Thr	Leu	Ala	Phe	Ser
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Ile	Pro	Ile	Leu	Met	Gln	Leu	Lys	Gln	Pro	Ala	Asn	Lvs	Glv	Phe	Ara
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АТА	Leu	rre			Pro	Thr	Arg		Leu	Ala	Ser	Gln	Ile	His	Arg
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Glu	Leu	Ile	Lvs	Ile	Ser	Glu	Gly	Thr	Glv	Phe	Ara	Ile	His	Met	Tle
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							120					123			
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HIS		Ala	Ala	Val	Ala		Lys	Lys	Phe	Gly	Pro	Lys	Ser	Ser	Lys
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Lys	Phe	Asp	Ile	Leu	Val	Thr	Thr	Pro	Asn	Ara	Leu	Ile	Tvr	Leu	Leu
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Lys	Leu	Asn	Leu	Asp	Asn	Val	Ile	Ser	Val	Ser	Ile	Gly	Ala	Arg	Asn
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Ser	Ala	Val	Glu	Thr	Val	Glu	Gln	Glu	Leu	Leu	Phe	Val	Gly	Ser	Glu

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Pro	Pro	Val 275	Leu	Val	Phe	Val	Gln 280	Ser	Ile	Glu	Arg	Ala 285	Lys	Glu	Let
Phe	His 290	Glu	Leu	Ile	Tyr	Glu 295	Gly	Ile	Asn	Val	Asp 300	Val	Ile	His	Ala
Glu 305	Arg	Thr	Gln	Gln	Gln 310	Arg	Asp	Asn	Thr	Val 315	His	Ser	Phe	Arg	Ala 320
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Lys	Gly 370	Lys	Ala	Ile	Thr	Phe 375	Phe	Thr	Glu	Asp	Asp 380	Lys	Pro	Leu	Leu
Arg 385	Ser	Val	Ala	Asn	Val 390	Ile	Gln	Gln	Ala	Gly 395	Cys	Pro	Val	Pro	Glu 400
Tyr	Ile	Lys	Gly	Phe 405	Gln	Lys	Leu	Leu	Ser 410	Lys	Gln	Lys	Lys	Lys 415	Met
Ile	Lys	Lys	Pro 420	Leu	Glu	Arg	Glu	Ser 425	Ile	Ser	Thr	Thr	Pro 430	Lys	Cys
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Leu	Thr	Asn 35		Cys	His		His '40		Cys	Phe	Glu	Leu 45	Asp	Leu	Cys
Asp	Leu 50				Ser								His		Leu
Pro 65	Pro	_	Ser				٠.		:		1 4	•	2	a	
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Tyr	Ser 50	Asp	Gly	Val	Val			Gln			Ala 60	His	Arg	His	Gly
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Met	Ser	Thr	Ser	His 85	Ile	Leu	Met	Ser	His 90	Arg	Arg	Gly	Asp	Gly 95	Ile
Fhr													Thr 110		Thr
Met					Ile								Ala	Arg	Met
Pro					Phe					His		Val	Ser	Arg	Ser
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Pro His Ser Pro Gly Pro Gln His Leu Pro Ser Ser Ser Phe Leu Ala 165 170 175

Ser Gln Pro Leu Pro His Pro Gln Cys Leu Asp Pro Glu Val Arg Thr 180 185 190

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Pro Leu Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln 50 55 60

Ala Gln Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys 65 70 75 . 80

Asn Ala Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe 85 90 95

Gly Leu Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met
100 105 110

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Pro Asn Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val 130 135 140

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Gly	Lys 290	Arg	Ser	Asn	Ser	Arg 295	Lys	Lys							
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His	Cys	Leu	Pro 20	_	Pro	Pro	Arg	Tyr 25	Arg	Gly	Asn	Gln	Pro 30	Val	Gly
Val	Gly	Leu 35	Glu	Ala	Ala	Lys	Thr 40	Glu	Lys	Gln	Xaa	Cys 45		Pro	Glu
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Ile 65	Tyr	Leu	Gly	His	Phe 70	Ser	Asp	Pro	Met	Tyr 75	_	Cys	Glu	Cys	Gln 80
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Asp	Gly	Trp	Pro 100	Asn	Leu	Asn	Leu	Val 105	Cys	Ala	Thr	Asn	Ala 110	Thr	Tyr
His	Cys	Ile 115	Lys	Asp	Asn	Cys	Pro 120	His	Leu	Pro	Asn	Ser 125		Gln	Glu
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Asn 145	Asp	Gly	Val	Thr	Asp 150	Glu	Lys	Asp	Asn	Cys 155	Gln	Leu	Leu	Phe	Asn 160
Pro	Arg	Gln	Ala	Asp 165	Tyr	Asp	Lys	Asp	Glu 170	Val	Gly	Asp	Arg	Cys 175	Asp
Asn	Cys	Pro	Tyr 180	Val	His	Asn	Pro	Ala 185	Gln	Ile	Asp	Thr	Asp 190	Asn	Asn
Gly	Glu	Gly 195	Asp	Ala	Cys	Ser	Val 200	Asp	Ile	Asp	Gly	Asp 205	Asp	Val	Phe
Asn	Glu 210	Arg	Asp	Asn	Cys	Pro 215	Tyr	Val	Tyr	Asn	Thr 220	Asp	Gln	Arg	Asp
Thr 225	Asp	Gly	Asp	Gly	Val 230	Gly	Asp	His	Cys	Asp 235	Asn	Cys	Pro	Leu	Val 240
His	Asn ·	Pro	Asp	Gln 245	Thr	Asp	Val	Asp	Asn 250	Asp	Leu	Val	Gly	Asp 255	Gln
Cys	Asp	Asn	Asn 260	Glu	Asp	Ile	Asp	Asp 265	Asp	Gly	His	Gln	Asn 270	Asn	Gln
Asp	Asn	Cys 275	Pro	Tyr	Ile	Ser	Asn 280	Ala	Asn	Gln	Ala	Asp 285	His	Asp	Arg

Asp	Gly 290	Gln	Gly	Asp	Ala	Cys 295	Asp	Pro	Asp	Asp	Asp 3,00	Asn	Asp	Gly	Val
Pro 305	Asp	Asp	Arg	Asp	Asn 310	Cys	Arg	Leu	Val	Phe	Asn	Pro	Asp	Gln	Glu 320
Asp	Leu	Asp	Gly	Asp 325	Glÿ	Arg	Gly	Asp	Ile 330	Cys	Lys	Asp	Asp	Phe 335	Asp
Asn	Asp	Asn	Ile 340	Pro	Asp	Ile	Asp	Asp 345	Val	Cys	Pro	Glu	Asn 350	Asn	Ala
Ile	Ser	Glu 355	Thr	Asp	Phe	Arg	Asn 360	Phe	Gln	Met	Val	Pro 365	Ľeu	Asp	Pro
Lys	Gly 370	Thr	Thr	Gln	Ile	Asp 375	Pro	Asn	Trp	Val	11e 380	Arg	His	Gln	Gly
Lys 385	Glu	Leu	Val	Gln	Thr 390	Ala	Asn	Ser	Asp	Pro 395	Gly	Ile	Ala	Val	Gly 400
Phe	Asp	Glu	Phe	Gly 405	Ser	Val	Asp	Phe	Ser 410	Gly	Thr	Phe	туr	Val 415	Asn
Thr	Asp	Arg	Asp 420	Asp	Asp	Tyr	Ala	Gly 425	Phe	Val	Phe	Gly	Tyr 430	Gln	Ser
Ser		Arg 435	Phe	Tyr	Val	Val	Met 440	Trp	Lys	Gln	Val	Thr 445	Gln	Thr	Tyr
	Glu 450	Asp	Gln	Pro	Thr	Arg 455	Ala	Tyr	Gly	Tyr	Ser 460	Gly •	Val	Ser	Leu
		Val	Asn 		Thr 470	Thr					His		Arg		Ala 480
Leu	Trp	His	Xaa	Gly 485	Asn	Thr		Gly		Val	_		Leu	Trp 495	His
Asp	Pro		Asn 500												
Leu	Thr	His 515	Arg		Lys	Thr					Val				
			Val				Ser	Gly	Pro	Ile	Tyr 540	Asp	Gln	Thr	Tyr
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Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile 565 570
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<212> PRT

<213> Homo sapiens

<400> 1032

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Cys Leu Gly Arg Ala Glu Ala Phe Trp Arg Ser Lys Met Gly Arg Lys
20 25 30

Asp Ala Ala Thr Ile Lys Leu Pro Val Asp Gln Tyr Arg Lys Gln Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Lys Gln Asp Tyr Lys Lys Thr Lys Pro Ile Leu Arg Ala Thr Lys 50 55 60

Leu Lys Ala Glu Ala Lys Lys Thr Ala Ile Gly Ile Lys Glu Val Gly 65 70 75 80

Leu Val Leu Ala Ala Ile Leu Ala Leu Leu Leu Ala Phe Tyr Ala Phe 85 90 95

Phe Tyr Leu Arg Leu Thr Thr Asp Val Asp Pro Asp Leu Asp Gln Asp 100 105 110

Glu Asp

<210> 1033

<211> 243

<212> PRT

<213> Homo sapiens

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<222>. (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

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<40	0>	1033													
His 1	Ar	g Arg	, Asp	Glu 5		Leu	Gln	Ser	Leu 10	Arg	Phe	Arg	Arg	Arg 15	
Gly	Al	a Glr	Ala 20		Asp	Ala	Cys	Gly 25	Pro	Arg	Ala	Asp	Leu 30	Gly	Gly
Pro	-Ar	g Glu 35		Ala	Ala	Gly	Gly 40	Arg	Ala	Ala	Trp	His 45	Arg	Pro	Ala
Ala	Arc 50		Gln	Ser	Přö	Arg 55	Arg	Cys	His	Ala	Gly 60	Val	His	Àrg	Ser
Gln 65	Cys	s His	Leu	Cys	Arĝ 70	Lėü	Glý	Ala	Alá	Glu 75	Arg	Phe	Arg	Gly	Ile 80
Val	Ala	a Leu	Leu	Ala 85	Ser	Arg	Xaa	Leu	Leu 90	Arg	Pro	Pro	Leu	His 95	Trp
Val	Let	ı Leu	Ala 100	Xaa	Ala	Leü :	Val	Asn 105	Leu	Leu	Leu	Ser	Val 110	Ala	Cys
Ser	Let	1 Gly 115		Leu	Leu	Alā	Vál 120	Ser	Leu	Thr	Val	Ala 125	Asn	Gly	Gly
Arg	Arq		Ile	Ala	Asp	Cys 135	His	Pro	Gly	Leu	Leu 140	Àsp	Pro	Leu	Val
Pro 145	Let	ı Asp	Glu	Gly	Pro 150		His	Thr	Asp	Cys 155	Pro	Phe	Asp	Pro	Thr 160
Arg	Ile	туг	Asp	Thr 165	Ala	Leu	Ala	Leú	Trp 170	İle	Pro	Ser	Leu	Leu 175	Met
Ser	Äla	Gly	Glu 180	Ala	Ala	Leu	Ser	Gly 185	туг	Cys	Cys	Val	Ala 190	Ala	Leu
Thr	Leu	Arg 195		Val	Gly	Pro	Cys 200		Lys	Asp	Gly	Leu 205		Gly	Gln
Leu	G10 210		Met	Thr	Glu	Leu 215	Glu	Ser	Pro	Lys	Cys 220	Lys	Arg	Gln	Glu
Asn 225	Glu	Gln	Leu	Leu	Asp 230	Glń	Asn	Gln	Glú	Ilė 235	Arg	Ala	Ser	Gln	Arg 240
Ser	Trp	Val			;	-			-	٠.		-,			

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<211> 173
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<213> Homo sapiens
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Pro Gly Arg Cys Asn Ser His Arg Leu Lys Val Ser Ser Gly Leu Cys
Lys Thr His Glu Ile Gly Phe Asp Pro Leu Ala Leu Lys Cys Pro Leu
                             40
Arg Ser Arg Thr Ala Pro Trp Trp Pro Leu Asp Arg Val Ser Phe Asp
                         55
Leu His His Leu Val Ile Gly Asn Phe Phe Val Gly Asn Arg Lys Ile
Phe Leu Asp Tyr Leu Val Tyr Gly Phe Ala His Asn Asn Arg Trp Lys
                                     90
Leu Leu Val Gln Ser Trp Ser Asp Gly Cys Val His Arg Thr Phe Gly
            100
                                105
Leu Val Lys Ser Phe Ser Lys Ala Ser Phe Cys Ile Phe Ile Thr Lys
                            120
Gln Arg Lys Ser Ser Glu Asp Leu Ala Leu Lys Gln Ile Cys Ala Asn
                        135
Thr Ala Arg Val Ile Leu Lys Leu Lys His Phe His Phe Val Ser Tyr
Met Cys Thr Phe Leu Phe Thr Cys Glu Asn Gly His Leu
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<213> Homo sapiens

<400> 1035

Ser Phe Ser Glu Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met

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<210> 1035 <211> 241 <212> PRT

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_					•	_									
Leu	Ala								Asp	Ser	Gln		Ile	Phe	Gly
	•	.3.5.					40.			-		45	٠.,		
						. :									
Ser													Ile	Leu	Ile
	50		-		٠.	5.5	:		-	. : :	60				• •
											F				•
													Cys		
65		•		٠.	-70		٠	7 11		7.5			•	1	. 80
				٠.					•	-	:				
Ala	Ile	Lys	Glu										Ile		
٠.				85	. :				-90	13 A				95	
								-				•			
Leu	Leu	Ile											Gly		
			1.00	٠		٠	∵ .	105	,	· · · :		·	110.	1:1	-
		:					:								
Phe	Lys												Tyr		
		115			==	. •	120					125		• •	
						2									:
Thr	Lys	Leu	Leu	Ser	Ala	Thr	Gly	Glu	Ser	Glu	Lys	Gln	Phe	Gln	Glu
•	130		•		٠, ٠	1:35	• -	6.2.3	· ÷	: :	140.				
										<u>.</u>					
Ala	Ile	Ile	Val	Phe	Gln								Leu		
145					150				2	155		:		124	160
				٠.											
Gly	Ala	Ala	Asp	Trp	Gly	Asn	Asn	Phe	Gln	His	Tyr	Pro	Glu	Leu	Cys
			;	165		.•			170					175	•
														:	•
Ala	Cys	Leu	Asp	Lys	Gln	Arg	Pro	Cys	Gln	Ser	Tyr	Asn	Gly	Lys	Gln
			180					185					190		
Val	Tyr	-	Glu	Thr	Cys	Ile	Ser	Phe	Ile	Lys	Asp	Phe	Leu	Ala	Lys
		195					200					205			
Asn		Ile	Ile	Val	Ile		Ile	Ser	Phe	Gly		Ala	Val	Ile	Glu
	210					215					220				
											•				
	Leu	Gly	Leu	Val		Ser	Met	Val	Leu	Tyr	Cys	Gln	Ile	Gly	Asn
225			•		230					235					240
	:			-	•						•		- ,		
Lys															
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225	;				230)				235	5				240
Leu	Туг	Phe	⊇ Ası	245		r Phe	e Pro	Gly	/ Glr 250		a Ile	e Ala	a Met	255	
Pro	Ile	Э Туг	260		val	l Leu	ı Glu	265) Asp	Gly	Thi	Pro 270		Thr
Met	Ser	Glr 275		Ala	Lys	Asp	Val 280		Thr	Phe	. Leu	285		Ala	Ser
Glu	Pro 290		His	- Asp	His	295		Arg	Met	Gly	300		. Met	. Leu	Met
Met 305		Ala	Leu	Leu	Val		Leu	Val		315		Lys	Arg	His	Lys 320
Trp	Ser	Val	Leu	Lys 325		Arg	Lys	Leu	Ala 330	Tyr	Arg	Pro	Pro	Lys 335	
				•		•	• •				÷		• •	*	-
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	3> H		sapi	ens						S	* *.#			٠.	
			Gln	.Gly 5	Pro	Leu	Pro	Leu	Arg 10	Ala	Leu	Pro	Trp	His 15	Ser
Ser	Arg	Ser	Arg 20	Val	Thr	Cys	Thr	Arg 25	Cys	Phe	Ser	Trp	Met 30	His	Pro
Ser	Pro	Met 35	His	Pro	Leu	Arg	Ala 40	Gly	Ser	Lys	Ser	Gln 45	Gly	Ser	Arg
Ser	Pro 50	Ala	Pro	Ser	Pro	Met 55	Arg	Ala	Ala	Asn	Arg 60	Ser	His	Ser	Ala
Gly 65	Arg	Thr	Pro	Gly	70	Thr	Pro	Gly	Lys	75	Ser	Ser	Lys	Val	Gln 80
Phr	Thr	Pro	Ser	Lys 85	Pro		Gly		Arg 90	Tyr	Ile	Pro	His	Arg 95	Ser
Ala	Ala	Gln	Met 100				Ser	Phe 105		Leu	Ser	Lys	Glu 110	Asn	Gln
Pro	Glu	Asn 115	Ser	Gln			Thr 120			Glu		Gln 125	Lys	Ala	Trp

Ala	Leu 130	Asn	Leu	Asn	Gly	Phe 135	Asp	Val	Glu	Glu	.Ala 140		Ile	Leu	Arg
Leu 145	Ser	Gly	Lys	Pro	Gln 150	Asn	Ala	Pro	Glu	Gly 155	_	Gln	Asn	Arg	Leu 160
Lys	Val	Leu	Tyr	Ser 165	Gln	Lys	Ala	Thr	Pro 170	Gly	Ser	Ser	Arg	Lys 175	
Cys	Arg	Tyr	Ile 180	Pro	Ser	Leu	Pro	Asp 185	Arg	Ile	Leu	Asp	Ala 190	Pro	Glu
Ile	Arg	Asn 195	Asp	Tyr	Tyr	Leu	Asn 200	Leu	Val	Asp	Trp	Ser 205	Ser	Gly	Asn
Val	Leu 210	Ala	Val	Ala	Leu	Asp 215	Asn	Ser	Val	Tyr	Leu 220	Trp	Ser	Ala	Ser
Ser 225	Gly	Asp	Ile	Leu	Gln 230	Leu	Leu	Gln	Met	Glu 235	Gln	Pro	Gly	Glu	Tyr 240
Ile	Ser	Ser	Val	Ala 245	Trp	Ile	Lys	Glu	Gly 250	Asn	Ťyr	Leu	Ala	Val 255	Gly
Thr	Ser	Ser	Ala 260	Glu	Val	Gln	Leu	Trp 265	Asp	Val	Gln	Gln	Gln 270	Lys	Arg
Leu	Arg	Asn 275	Met	Thr	Ser	His	Ser 280	Ala	Arg	Val	Gly	Ser 285	Leu	Ser	Trp
	290				Ser	295					300	•			
305					Ala .310		٠			315					320
				325	Gly				330					335	
			340		Asp			345			:		350		
		355			Val		360					365			
	370	•			Ala	375	•	•	•		380	•		•	
Thr 385	Gly	Gly	Gly	Thr	Ser 390	Asp	Arg	His	Ile	Arg 395	Ile	Trp	Asn	Val	Cys 400

ser	GIY	Ala	. Cys	405		Ala	. Val	Asp	410		Ser	Glr	val	. Cys 415	
Ile	Leu	Trp	Ser 420		His	Tyr		Glu 425	Leu	Ile	Ser		430		Phe
Ala	Gln	435	Gln		Val		Trp 440			Pro				: Lys	Val
Ala	Glu 450	Leu	Lys		His		Ser			_			Thr	Met	
465			Ala		Val 470					475		Glu	Thr	Leu	Arg 480
			Cys				Asp	-		Arg		Arg	Glu	Arg 495	Glu
Lys	Ala	Ser	Ala 500	Ala	Lys	Ser	Ser	Leu 505	Ile	His	Gln	Gly	Ile 510	Arg	
•					•										
	0> 10										-				
	l> 2(2> PI														
			sapi	ens											
	0> 10		·	C						.77.7	: -				
1	GIU	PIO	Pro	5	Ala	ser	ser	vai	10	GIÀ	Asp	Leu	GLY	Arg 15	GIÀ
Thr	Arg	Thr	Glu 20	Val	Glu	Ala		25	Ala	Arg	Pro	Gly	Ala 30	Glu	Ser
Ala	Pro	Ala	Ala		Met			Ser	Trp	Asp	Lys	Asp	Val	Tvr	Pro
		35					40		•			45		- 4 -	
Glu	Pro 50	Pro	Arg	Arg	Thr	Pro 55	Val	Gln	Pro	Asn	Pro 60	Ile	Val	Tyr	Met
Met	Lys	Ala	Phe	Asp	Leu	Ile	Val	Asp	Arg	Pro	Val	Thr	Leu	Val	Arg

Glu Phe Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr His

Arg Gln Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp

105 110

65 70

100

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Ile Met Cys Met Tyr Glu Ala Glu Met Gln Trp Lys Arg Asp Tyr Lys
                            120
Val Asp Gln Glu Ile Ile Asn Ile Met Gln Asp Arg Leu Lys Ala Cys
Gln Gln Arg Glu Gly Gln Asn Tyr Gln Gln Asn Cys Ile Lys Glu Val
145
                    150
Glu Gln Phe Thr Gln Val Ala Lys Ala Tyr Gln Asp Arg Tyr Gln Asp
                165
                                    170
Leu Gly Ala Tyr Ser Ser Ala Arg Lys Cys Leu Ala Lys Gln Arg Gln
                                185
Arg Met Leu Gln Glu Arg Lys Ala Ala Lys Glu Ala Ala Ala Thr
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Asn Tyr Glu Val Ile Asp Glu Gln Thr Pro Leu Tyr Ser Ala Asp Pro
                             40
Asn Ala Ile Asp Thr Asp Tyr Tyr Pro Gly Gly Tyr Asp Ile Glu Ser
     50
                        55
Asp Phe Pro Pro Pro Glu Asp Phe Pro Ala Ala Asp Glu Leu Pro
```

Pro Leu Pro Pro Glu Phe Ser Asn Gln Phe Glu Ser Ile His Pro Pro

Ar	g As	p Me	t Pr . 10	o Ala	a Al	a Gl	y Sei	r Let	u Gly	y Sei	Ser	Ser	Arg		Arg
		g Ph	e As:	n Lei		n Gli	n Tyi	r Lei	ı Pro) Asr	Phe	Tyr	Pro	Leu	Asp
		11				-	120					1,25.	_		
Met	Ser . 130	r Gl	u Pro	o Glr	Thi	Lys 135	6 Gly	Thr	Gly	Glu	Asn 140	Ser	Thr	Cys	
			;				٠. ٠	7							_
145	PIC		S Ala	a Pro	150	Pro	Pro) Xaa	Tyr	Gln 155	Arg	His	Phe	Glu	Ala 160
				ı Ser 165	Met		:			Tyr					
Cys	Ser	Asp	Va)	Ser		Cys	Cys		Val		Ser	Glu			Met
								185					190		
Ser	Asp	195	Glu	Ser	Gly	Asp	200		His	Phe	Glu	Glu 205	Val	Thr	Ile
Pro	Pro 210		Asp	Ser	Gln	Gln 215		Thr	Glu	Val					
		-													
<2,1	0> 1	040						بي. ميري		٠					
	1> 1 2> P:														*
			sapi	ens		•									
<22						٠.		<u>.</u> : .		2.2	:		*	:	_
	1> s: 2> (:											•			
<223	3> X	aa e	qual:	s any	y of	the	nati	ırall	y oc	curr	ing	L-am	ino	acid	5
)> 1					-	·-			. سے بحد				-	.•
Phe 1		Leu	Pro	Tyr 5	Arg	Ala	Glu	Phe	10					Pro 1	Leu
Ser	Ala	Ala	20	Ser				25	Leu		Cys :		Leu (30	Gly I	Ala
Met	Glu	Ser 35	Asp	Phe	Tyr	Leu	Arg 40	Tyr	Tyr	Val	Gly I	His 1	Lys (Gly I	Lys
Phe	Gly 50	His	Glu	Phe	Leu		Phe	Glu	Phe		Pro 2 60	Asp (Gly I	Lys I	eu
Arg	Tyr	 Ala	Asn	Asn	Ser	 Aşn	Tyr	Lys	Asn .	Asp '	Val N	1et]	le A	Arg I	ys

65					70					75					80
Glu	Ala	туr	Val	His 85		Ser	Val	Met	Glu 90		Leu	Lys	Arg	Ile 95	
Asp	Asp	Ser	Glu 100	Ile	Thr	Lys	Glu	Asp 105		Ala	Leu	Trp	Pro	Pro	Pro
Asp	Arg	Val 115	Gly	Arg	Gln	Glu	Leu 120	Glu	Ile	Val	Ile	Gly 125	- •	Glu	His
Ile	Ser 130	Phe	Thr	Thr	Ser	Lys 135	Ile	Gly	Ser	Leu	Ile 140	Asp	Val	Asn	Gln
Ser 145	Lys	Asp	Pro	Glu	Gly 150	Leu	Arg	Val	Phe	Tyr 155	Туr	Leu •	Val	Gln	Asp 160
Leu	Lys	Суѕ	Leu	Val 165	Phe	Ser	Leu	Ile	Gly 170	Leu	His	Phe	Lys	11e 175	_
Pro	Ile													•	
-210	3														
	0> 10 l> 12														
	2> PF	_												;	
_ : :			sapie	ens											
<400)> 10	141						•							·. •
Leu l	Val	Pro	Asn	Ser 5	Ala	Arg	Ala	Gly	Ala 10	Ser	Tyr	Ala	Ala	Ala 15	Ala
Val	Thr	Met	Ala 20	His	Tyr	Lys	Ala	Ala 25	Asp	Ser	Lys	Arg	Glu 30	Gln	Phe
Arg	Arg	Tyr 35	Leu	Glu	Lys	Ser	Gly 40	Val	Leu	Asp	Thr	Leu 45	Thr	Lys	Val
Leu	Val 50	Ala	Leu	туr	Glu	Glu 55	Pro	Glu	Lys	Pro	Asn 60	Ser	Ala	Leu	Asp
Phe 65	Leu	Lys	His	His	Leu 70	Gly	Ala	Ala	Thr	Pro 75	Glu	Asn	Pro	Glu	Ile 80
Glu	Leu	Leu	Arg	Leu 85	Glu	Leu	Ala	Glu	Met 90	Lys	Glu	Lys	Tyr	Glu 95	Ala
Ile	Val	Glu	Glu 100	Asn	Lys	Lys	Leu	Lys 105	Ala	Lys	Leu	Ala	Gln 110	Tyr	Glu

Pro Pro Gln Glu Glu Lys Arg Ala Glu

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<40				Ara	Val	Ara	Bro	A-ra	Sar	Val	Aen	Glv	Glu	Leu	Gla	Two
1	1.	-		, . : 7:	5				501	10		CLY	. 014		15	Буз
Ala	Ιl	e.	Asp	Leu 20	Phe	Thr	Asp	Ala :	Ile 25	Lys	Leu	Asn	Pro	Arg 30	Leu	Ala
Ile	Le	u-	Tyr 35	Ala	Lys	Arg	Ala _:	Ser 40	Val	Phe	Val	Lys	Leu 45	Gln	Lys	Pro
Asn	A1 5		Ala	Ile	Arg	Asp	Cys 55	Asp	Arg	Ala	Ile	Glu 60	Ile	Asn.	Pro	Asp
Ser 65	Al	a.	Gln	Pŗo	Tyr	Lys 70	Trp	Arg	Gly.	Lys	Ala 75	His	Arg	Leu	Leu	Gly 80
His	Tr	ρ	Glu	Glu	Ala 85	Ala	His	Asp	Leu	Ala 90	Leu	Ala	Суѕ	Lys	Leu 95	Asp
туг	As	9	Glu	Asp 100	Ala	Ser	Ala	Met	Leu 105	Lys	Glu	Val	Glņ	Pro 110	Arg	Ala
Glņ	Ly		Ile 115	Ala	Glu	His	Arg	Arg	Lys	Tyr	Glu	Arg	Lys _: 125	Arg	Glu	Glu
Arg	G1:		Ile.	Lys	Glu	Arg	Ile 135	Glu	Arg	Val	Lys.	Lys 140	Ala.	Arg	Glu	Glu
His 145	Gli	1 . i	Arg	A·la:	Gln.	Arg 150	Glu _j	Glu	Glu	Ala	Arg 155	Ārg	Gln	Ser	Gly.	Ala 160
Gln	Ту	r (Gly	Ser	Phe 165	Pro	Gly	Gly	Phe	Pro 170	Gly	Gly	Met	Pro	Gly 175	Asn
Phe	Pro) (Gly	Gly 180	Met	Pro	Gly	Met _:	Gly. 185	Gly	Gly	Met	Pro	Gly 190	Met	Ala
Gly	Met		Pro 195	Gly	Leu	Asn	Glu	11e 200	Leu	Ser	Asp.	Pro	Glu 205	Val	Leu	Ala

Ala Met Gln Asp Pro Glu Val Met Val Ala Phe Gln Asp Val Ala Gln 210 215 Asn Pro Ala Asn Met Ser Lys Tyr Gln Ser Asn Pro Lys Val Met Asn 235 230 Leu Ile Ser Lys Leu Ser Ala Lys Phe Gly Gly Gln Ala <210> 1043 <211> 343 <212> PRT <213> Homo sapiens <400> 1043 Met Lys Thr Cys Gln Glu Glu Lys Leu Met Gly His Leu Gly Val Val 10 Leu Tyr Glu Tyr Leu Gly Glu Glu Tyr Pro Glu Val Leu Gly Ser Ile 20 Leu Gly Ala Leu Lys Ala Ile Val Asn Val Ile Gly Met His Lys Met Thr Pro Pro Ile Lys Asp Leu Leu Pro Arg Leu Thr Pro Ile Leu Lys 50 55 Asn Arg His Glu Lys Val Gln Glu Asn Cys Ile Asp Leu Val Gly Arg Ile Ala Asp Arg Gly Ala Glu Tyr Val Ser Ala Arg Glu Trp Met Arg 85 Ile Cys Phe Glu Leu Leu Glu Leu Leu Lys Ala His Lys Lys Ala Ile 100 105 Arg Arg Ala Thr Val Asn Thr Phe Gly Tyr Ile Ala Lys Ala Ile Gly 115 120 Pro His Asp Val Leu Ala Thr Leu Leu Asn Asn Leu Lys Val Gln Glu 130 135 Arg Gln Asn Arg Val Cys Thr Thr Val Ala Ile Ala Ile Val Ala Glu 150 155 Thr Cys Ser Pro Phe Thr Val Leu Pro Ala Leu Met Asn Glu Tyr Arg

Val Pro Glu Leu Asn Val Gln Asn Gly Val Leu Lys Ser Leu Ser Phe

			180					185					190		
Leu	Phe	Glu	Tyr	Ile	Gly	Glu	Met	Gly	Lys	Asp	Tyr	Ile	Tyr	Ala	Va 1
		195		–			200	: .:	: . ·	٠.		205	• • • • •	·	:
Thr												Leu	Val	His	Arg
	210			. :		215				. •	220	. .		1. 2	
Gln	Thr	Ala	Ser	Ala	Val	Val	Gln	His	Met	Ser	Leu	Gly	Val	Tyr	Gly
225	• -	:	:	. ,		. : :	: 1 .	.:	٠.	2,3.5	STO		:		240
Phe	Gly	Cys	Glu	Asp	Ser	Leu	Asn	His	Leu	Leu	Asn	Tyr	Val	Trp	Pro
٠,	٠ .			245	2. 2	•			250		7 ·	ت ت		255	
Asn	Val	Phe	Glu	Thr	Ser	Pro	His	Val	Ile	Gln	Ala	Val	Met	Gly	Ala
• • :	٠.	• • • :	260		٠.	• 7	÷. ••	265	; · ;	1	1	نتاك ف ا	2.7.0	8.12	
Leu	Glu	Gly	Leu	Arg	Val	Ala	Ile	Gly	Pro	Cys	Arg	Met	Leu	Gln	Tyr
		275			- :		280		. ;			285		Na sa	
Cvs	Leu	Gln	Glv	Leu	Phe	His	Pro	Ala	Ara	Lvs	Val	Arg	Asp	Val.	: .Tvr
												· ·			
	•	-1-		•	2			71 ~		~	31 -	•		•	-1-
												Asp			
	_					- "								•	
		_										Thr	Tyr		
1		: -	: ' '	325	l u	.7.1	1.573		330-	12.10				335	
Tyr	Glu	Leu	Asp	Tyr	Ile	Leu			·						·.
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	L> 26 2> PF	58 om													
		omo s	sapie	ens											
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<220)>										•			* .	
	l> 51														•
<223	3> X &	a ec	quals	any	OI	the	natu	ırall	y oc	curi	ring	L-an	ulno	acıc	ıs
	> 10											-:			
Leu 1	Arg	Arg	Pro	Tyr 5	Ala	Arg	Tyr	Asn	Gly 10	Leu	Tyr	Arg	Ser	Gly 15	Ile
										٠.,					
Arg	Gly	Arg	Xaa 20		•							Glu	Leu 30	Pro	Gly
			20												

Gly	Ala	Met 35		Cys	Ile	Asn	Leu 40		Thr	Val	Leu	Pro 45	Gly	Ser	Pro
Ser	Lys 50	Thr	Arg	Gly	Gln	Ile 55		Val	Ile	Leu	Gly 60	Pro	Met	Phe	Se
Gly 65	Lys	Ser	Thr	Glu	Leu 70	Met	Arg	Arg	Val	Arg 75	Arg	Phe	Gln	Ile	Ala 80
Gln	Tyr	Lys	Cys	Leu 85		Ile	Lys	Tyr	Ala 90		Asp	Thr	Arg	Tyr 95	Sei
Ser	Ser	Phe	Cys 100	Thr	His	Asp	Arg	Asn 105	Thr	Met	Glu	Ala	Leu 110	Pro	Ala
Cys	Leu	Leu 115	Arg	Asp	Val	Ala	Gln 120	Glu	Ala	Leu	Gly	Val 125	Ala	Val	Ile
Gly	Ile 130	Asp	Glu	Gly	Gln	Phe 135	Phe	Pro	Asp	Ile	Val 140	Glu	Phe	Cys	Glu
Ala 145	Met	Ala	Asn	Ala	Gly 150	Lys	Thr	Val	Ile	Val 155	Ala	Ala	Leu	Asp	Gly 160
Thr	Phe	Gln	Arg	Lys 165	Pro	Phe	Gly	Ala	Ile 170	Leu	Asn	Leu	Val	Pro 175	Leu
Ala	Glu	Ser	Val 180	Val	Lys	Leu	Thr	Ala 185	Val	Cys	Met	Glu	Cys 190	Phe	Arg
Glu	Ala	Ala 195	Tyr	Thr	Lys	Arg	Leu 200	Gly	Thr	Glu	Lys	Glu 205	Val	Glu	Val
Ile	Gly 210	Gly	Ala	Asp	Lys	Tyr 215	His	Ser	Val	Cys	Arg 220	Leu	Cys	Tyr	Phe
Lys 225	Lys	Ala	Ser	Gly	Gln 230	Pro	Ala	Gly	Pro	Asp 235	Asn	Lys	Glu	Asn	Cys 240
Pro	Val	Pro		Lys 245	Pro	Gly	Glu	Ala	Val 250	Ala	Ala	Arg	Lys	Leu 255	Phe
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Gly Ser Ala Lys Ser Gly Glu Pro Gly Ala Gly Gly Lys Ala Gly Asp
Ser Pro Ala Leu Pro Pro Pro Pro Leu Gly Ala Gln Gln Leu Leu Arg
                           40
Lys Val Trp His Pro Trp Arg Gly Gly Ala Pro Gly Trp Ala Gly Ser
                        55 .
Arg Trp Pro Gly Ala Trp Arg Cys Ala Ala Gly Ala Cys Met Ala Pro
                    70
                        75 - 80
Arg Gly Thr Gln Ala Glu Glu Ser Pro Phe Val Gly Asn Pro Gly Asn
Ile Thr Gly Ala Arg Gly Leu Thr Gly Thr Leu Arg Cys Gln Leu Gln
                             105
Val Gln Gly Glu Pro Pro Glu Val His Trp Leu Arg Asp Gly Gln Xaa
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Leu Glu Leu Ala Asp Ser Thr Gln Thr Gln Val
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Gly Gly Glu Ser Val Ser Ser Trp Glu Glu Gln Asn Arg Gly Gly
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20 25

Ala Pro Ala Gly Ala Gly Gly Pro Thr Met Ala Ile Arg Lys Lys

40

Ser	Thr 50	Lys	Ser	Pro	Pro	Val 55	Leu	Ser	His	Glu	Phe 60	Val	Leu	Gln	Asn
His 65	Ala	Asp	Ile	Val	Ser 70	Cys	Val	Ala	Met	Val 75	Phe	Leu	Leu	Gly	Leu 80
Met	Phe	Glu	Ile	Thr 85	Ala	Lys	Ala	Ser	Ile 90	Ile	Phe	Val	Thr	Leu 95	Gln
Tyr	Asn	Val	Thr 100	Leu	Pro	Ala	Thr	Glu 105	Glu	Gln	Ala	Thr	Glu 110	Ser	Val
Ser	Leu	туг 115	Tyr	Tyr	Gly	Ile	Lys 120	Asp	Leu	Ala	Thr	Val 125	Phe	Phe	Tyr
Met	Leu 130	Val	Ala	Ile	Ile	Ile 135	His	Ala	Val	Ile	Gln 140	Glu	Tyr	Met	Leu
Asp 145	Lys	Ile	Asn	Arg	Arg 150	Met	His	Phe	Ser	Lys 155	Thr	Lys	His	Ser	Lys 160
Phe	Asn	Glu	Ser	Gly 165	Gln	Leu	Ser	Ala	Phe 170	Tyr	Leu	Phe	Ala	Cys 175	Val
Trp	Gly	Thr	Phe 180	Ile	Leu	Ile	Ser	Glu 185	Asn	Tyr	Ile	Ser	Asp 190	Pro	Thr
Ile	Leu	Trp 195	Arg	Ala	Tyr	Pro	His 200	Asn	Leu	Met	Thr	Phe 205	Gln	Met	Lys
Phe	Phe 210	Tyr	Ile	Ser	Gln	Leu 215	Ala	Tyr	Trp	Leu	His 220	Ala	Phe	Pro	Glu
Leu 225	Tyr	Phe	Gln	Lys	Thr 230	Lys	Lys	Glu	Asp	Ile 235	Pro	Arg	Gln	Leu	Val 240
			Leu	245					250	_				255	
Leu	Asn	His	Leu 260	Gly	Leu	Val	Leu	Leu 265	Val	Leu	His	Tyr	Phe 270	Val	Glu
Phe	Leu	Phe 275	His	Ile	Ser	-	Leu 280	Phe	Tyr	Phe	Ser	Asn 285	Glu	Lys	Tyr
	290		Phe			295					300				
Leu 305	Thr	Leu	Ile	Leu	Ser 310	Val	Leu	Thr	Val	Gly 315	Phe	Gly	Leu	Ala	Arg 320

Ala Glu Asn		Lys I 325	Leu Asp	Phe	Ser	Thr 330		Asn	Phe	Asn	Val 335	
	Tlo	nla u	73.1 TOU	7 J -	C		2	*** 1	m 1	01 -		.
Ala Val Arg	340	ALA V	ar reu	Ala	345		cys	val	Thr	350	Ala	Pne
Not Not Man	T	nh - *		Dh.a		•						
Met Met Trp		·.	Te Asii	360	GIR		Arg	_	365	Arg	GIU.	HIS
Ser Ala Phe		 ∆la D	ro Ala	Val	T.ve	•			Thr.		Th-	T
370	U 2	ALU I								Val	1111	Lys
Clubra sor		T T								21	~ m b	•
Gly Arg Ser 385		3	90				395					400
			7									
Thr Ser Asn		Ala A 405	sp Ser	Pro		Asn 410	Lys	Lys	Ğlu	Lys	Ser	Ser
*	• ;		, 1 7 1	-1-1	÷:		<i></i>	• • •	17 ,		413	•
			*					2				
5.5 × 5.9		. : .				,	1.4	: •	**			÷
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<210> 1047		14		•:	٠.		-	~ <u>;</u> .	2	٠.		• :
<211> 466												
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<212> PRT <213> Homo <400> 1047 Pro Ala Ser 1 Gly Arg Thr Thr Ala Pro 35 Thr Asn Ser 50	Gly 20 Gly 2	Gly Loss of the Part of the Month of the Mon	eu Leu ro Arg rg Ala et Gly 55	Pro 40	Pro 25 Val Ala	Ser 10 Pro His	Arg Ala Thr	Leu Gly Leu 60	Ala Ser 45 Gly	Ala 30 Leu Val	15 Leu Leu	Ala Gly Phe
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Arg Ile Glu Asp Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe

		115					120					125			
Gln	Asp 130		Val	Asp	Ala	Val 135		Ala	Glu	Lys	Gly 140		Leu	Leu	Leu
Ala 145	Ser	Leu	Arg	Gln	Met 150	Lys	Lys	Thr	Arg	Gly 155		Leu	Leu	Ala	Leu 160
Glu	Arg	Lys	Asp	His 165	Ser	Gly	Gln	Val	Phe 170		Val	Val	Ser	Asn 175	-
Lys	Ala	Gly	Thr 180	Leu	Asp	Leu	Ser	Leu 185		Val	Gln	Gly	Lys 190		His
Val	Val	Ser 195	Val	Glu	Glu	Ala	Leu 200	Leu	Ala	Thr	Gly	Gln 205		Lys	Ser
Ile	Thr 210	Leu	Phe	Val	Gln	Glu 215	Asp	Arg	Ala	Gln	Leu 220	Туr	Ile	Asp	Cys
Glu 225	Lys	Met	Glu	Asn	Ala 230	Glu	Leu	Asp	Val	Pro 235	Ile	Gln	Ser	Val	Phe 240
Thr	Arg	Asp	Leu	Ala 245	Ser	Ile	Ala	Arg	Leu 250		Ile	Ala	Lys	Gly 255	Gly
Val	Asn	Asp	Asn 260	Phe	Gln	Gly	Val	Leu 265	Gln	Asn	Val	Arg	Phe 270	Val	Phe
Gly	Thr	Thr 275	Pro	Glu	Asp	Ile	Leu 280	Arg	Asn	Lys	Gly	Cys 285	Ser	Ser	Ser
rhr	Ser 290	Val	Leu	Leu	Thr	Leu 295	Asp	Asn	Asn	Val	Val 300	Asn	Gly	Ser	Ser
Pro 305	Ala	Ile	Arg	Thr	Asn 310	Tyr	Ile	Gly	His	Lys 315	Thr	Lys	Asp	Leu	Gln 320
Ala	Ile	Cys	Gly	11e 325	Ser	Cys	Asp	Glu	Leu 330	Ser	Ser	Met	Val	Leu 335	Glu
Leu	Arg	Gly	Leu 340	Arg	Thr	Ile	Val	Thr 345	Thr	Leu	Gln	Asp	Ser 350	Ile	Arg
Lys	Val	Thr 355	Glu	Glu	Asn	Lys	Glu 360	Leu	Ala	Asn	Glu	Leu 365	Arg	Arg	Pro
Pro	Leu 370	Cys	Tyr	His	Asn	Gly 375	Val	Gln	Tyr	Arg	Asn 380	Asn	Glu	Glu	Trp
hr	Val	Asp	Ser	CVS	Thr	Glu	Cvs	His	Cvs	Gln	Asn	Ser	Val	Thr	Tle

385					390					395			•	·	400
Cys	Lys	Lys	Val	Ser 405	Cys	Pro	Ile	Met	Pro	Cys	Ser	Asn		Thr 415	
Pro	Asp		Glu 420	Cys	Cys	Pro	Arg	Cys 425		Pro	Ser		Ser 430	Ala	Asp
Asp	Gly	Trp 435	Ser	Pro	Trp	Ser	Glu 440	Trp	Thr	Ser	Cys	Ser 445	Thr	Ser	Cys
Gly	Asn 450	Gly	Ile	Gln	Gln	Arg 455	Gly	Arg	Ser	Cys	Asp 460	Ser	Ala	Gln	Gln
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	3> X	•	quals	any	of	the	nati	ural	Ly oc	curi	ring	L-an	nino	acio	ls
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		200) aa ed	quals	any	of	the	natu	ırall	y oc	curr	ing	L-an	ino	acid	s
)> 1(Pro		Val	Arg 5	Gln	Ser	His	Ile	Ser 10	Asp	Thr	Ser	Val	Val 15	Val
Lys	Leu		Asn 20		Arg	Asp	Leu	Asn 25	Met	Asp	Cys ·	Ile	Ile 30	Ala	Glu
Ile	Lys	Ala 35	Gln	Tyr	Asp		Ile 40	Val	Thr	Arg	Ser	Arg 45	Ala	Glu	Ala
Glu _.	Ser 50	Trp	Tyr	Arg	Ser				Glu	Met	_	Ala	Thr	Val	Ile _.

Arg 65	His	Gly	Glu	Thr	Leu 70	Arg	Arg	Thr	Lys	Glu 75	Glu	Ile	Asn	Glu	Leu 80
Asn	Arg	Met	Ile	Gln 85	Arg	Leu	Thr	Ala	Glu 90	Val	Glu	Asn	Ala	Lys 95	Cys
Gln	Asn	Ser	Lys 100	Leu	Glu	Ala	Ala	Val 105	Ala	Gln	Ser	Glu	Gln 110	Gln	Gly
Glu	Ala	Ala 115	Leu	Ser	Asp	Ala	Arg 120	Cys	Xaa	Leu	Ala	Glu 125	Leu	Glu	Gly
Ala	Leu 130	Gln	Lys	Ala	Lys	Gln 135	Asp	Met	Ala	Cys	Leu 140	Ile	Arg	Glu	Tyr
Gln 145	Glu	Val	Met	Asn	Ser 150	Lys	Leu	Gly	Leu	Asp 155	Ile	Glu	Ile	Ala	Thr 160
туг	Arg	Arg	Leu	Leu 165	Glu	Gly	Glu	Glu	Gln 170	Arg	Leu	Cys	Glu	Gly 175	
Gly	Ala	Val	Asn 180	Val	Cys	Val	Şer	Ser 185	Xaa	Arg	Gly	Gly	Val 190	Val	Cys
Gly	Asp	Leu 195	Cys	Val	Ser	Gly	Xaa 200	Arg	Pro	Val	Thr	Ala 205	Val	Ser	Ala
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Gly Ser Leu Met Ala Ala Thr Cys Glu Ile Ser Asn Ile Phe Ser Asn

Tyr Phe Ser Ala Met Tyr Ser Ser Glu Asp Ser Thr Leu Ala Ser Val

60

40

55

Pro 65	Pro	Ala	Ala	Thr	Phe 70	Gly	Ala	Asp	Asp	Leu 75		Leu	Thr	Leu	Ser 80
Asn	Pro	Gln	Met	Ser 85	Leu	Glu	Gly	Thr	Glu 90		Ala	Ser	Trp	Leu 95	Gly
Gľu	Gln	Pro	Gln 100	Phe	Trp	Ser	Lys	Thr 105	Gln	Val	Leu	Asp	Trp	Ile	Ser
Tyr	Gln	Val 115	Glu	Lys	Asn	Lys	Tyr 120	Asp	Ala	Ser		11e 125	Asp	Phe	Ser
	Cys 130		Met	Asp	Gly	Ala 135	Thr	Leu	Cys	Asn	Cys 140	Ala	Leu	Glu	Glu
Leu 145		-			Gly 150					155				•	160
Arg				Ser	Ser				Glu						
				165			تا ت	175	170					175	
Leu	Leu	Glu			Gly			Phe 185			Ala	Leu	Asp 190	Pro	Gly
Pro	Phe	Asp 195	Gln		Ser		Phe 200	Ala	Gln		Leu	Leu 205	Asp	Asp	Gly
Gln	Gln 210	Ala	Ser	Pro	Tyr		Pro			Cys	Gly 220	Ala	Gly	Ala	Pro
Ser 225	Pro	Gly	Ser	Ser	Asp 230	Val	Ser	Thr	Ala	Gly 235	Thr	Gly	Ala	Ser	Arg 240
Ser	Ser	His	Ser	Ser 245	Asp	Ser	Gly	Gly	Ser 250	Asp	Val	Asp	Leu	Asp 255	Pro
Thr	Asp	Gly	Lys 260	Leu	Phe	Pro	Ser	Asp 265	Gly	Phe	Arg	Asp	Cys 270	Lys	Lys
Gly	Asp	275			Gly	Lys	Arg 280					285		Lys	Leu
Ser	Lys 290		Tyr	Trp	Asp	295	Leu	Glu				Ser		His	Ala
Pro 305	Arg	Gly	Thr	His	Leu 310	Trp				Arg 315	Asp	Ile	Leu	Ile	His 320
Pro	Glu	Leu	Asn	Glu 325	Gly			Lys	Trp 330	Glu	Asn	Arg	His	Glu 335	Gly

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Val Phe Lys Phe Leu Arg Ser Glu Ala Val Ala Gln Leu Trp Gly Gln
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                               345
Lys Lys Lys Asn Ser Asn Met Thr Tyr Glu Lys Leu Ser Arg Ala Met
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Arg Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg
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Val Leu Gln Ser Arg Asn
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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
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Ser Phe Pro Leu Ser Gln His Leu Gly Pro Ala Phe Asp Thr Thr Pro
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Arg Leu Pro Thr Leu Arg Ala Trp Ser Leu Pro Gln Gly Pro Leu Ser
Trp Ala Met Ala Xaa Lys Gly Val Leu Gly Pro Gly Gln Leu Gly Ala
Val Ala Ile Leu Leu Tyr Leu Gly Leu Leu Arg Ser Gly Thr Gly Ala
                    70
Glu Gly Ala Glu Ala Xaa Cys Gly Val Ala Pro Gln Ala Arg Ile Thr
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Gly	Gly	Ser	Ser 100	Ala	Val	Ala	Gly	Gln 105		Pro	Trp	Gln	Val 110		Ile
Thr	Туг	Glu 115			His		Суs 120	Gly	Gly	Ser	Leu	Val 125		Glu	Gln
Trp	Val 130	Leu		Ala	Ala	His 135	Cys	Phe	Pro	Ser	Glu 140	His	His	Lys	Glu
Ala 145	Tyr	Glu	Val	Lys	Leu 150	. Gly	Ala	His	Gln	Leu 155	Asp	Ser	Tyr	Ser	Glu 160
	Ala			165	Thr	Leu	Lys	Asp	Ile 170		Pro	His	Pro	Ser 175	_
	٠.٠		180					Ile 185			•		190		_
	" . "	•		::	" <i>:</i> " 2	- 1. J. 1.4	2011	•	i	125	1.1.5	v 21.5	10.15	- :	:::::::
Pro	Ile	Thr	Phe	Ser	Arg	Tyr	Ile	Arg	Pro	Ile	Cvs	Leu	Pro	Ala	Ala
		195			,	- 4	200	3				205			,
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	210				<u></u>	215					220				
	Val	Ala	Pro	Ser		Ser	Leu	Leu	Thr		Lys	Pro	Leu	Gln	
225					230					235					240
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Leu	Glu	Val	Pro	Leu 245	Ile	Ser	Arg	Glu	Thr 250	Trp	**,				
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								Tyr			-				
Val	Asp	Ile	Arg 20	Arg	Ärg	Ser	Ser	Arg 25	Arg	Pro	Arg	Glu	Pro 30	Pro	Gly
Pro	Ser	Arg 35	Arg	Arg	Arg	Àrg	Arg 40	Ārg	Pro	Asp	Pro	Arg 45	Thr	Met	Pro
Ser	Glu 50	Lys	Thr	Phe	Lys	Gln 55	Arg	Arg	Thr	Phe	Glu 60	Gln	Arg	Val	Glu
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65					70					75			•		80
Ile		-	-	_	_		_					Leu	Asp	•	Thr
				85					90	-		•	•	95	
Lys										Ser	Glu	Leu	Ile	Lys	Ile
	•		100	•	•		••	105			• .	•	110		
Ile	Arg	-	-												Leu
* -		115	•	. :	•	• **	120		٠	1.4		125	2011/0	Ü	•
		_													Val
	130	٠.	, .	. 5.27	- 1	135		1 - 2		٠.	140				
											Tyr	Met			Ala
145				a*	150	`		-7	**	155		. .	٠.	٠.	160
Ser	Gln	Glu			Gly		_								
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GIY 1	_	Pro		5				-	10					15	
Ala		Glu													Ser
			20					25					30		
Pro	Arg	Ala	Ala	Ile	Ala	Val	Met	Leu					Arg	Arg	Cys
		35					40	•				45	,.		_
Ala	Val	Ala	Ala	Thr	Thr	Arg	Ala	Asp	Pro	Arg	Gly	Leu	Leu	His	Ser
	50				_	55					60				
Ala	Arg	Thr	Pro	Gly	Pro	Ala	vál	Ala	Ile	Gln	Ser	Val	Arg	Cys	Tyr
65					70		•			75					80
Ser	•••	Glv	Ser	Gln	Glu	Thr	Asp	Glu	Glu	Phe	Asp	Ala	Arg	Trp	Val
	HIS	4							~ ~						
	HIS			85					90					95	_
Thr		Phe		-	Pro	Asp	Ile	Asp		Trp	 Glu	Leu	Arg	•	Gly
Thr				-	Pro	Asp	Ile	105	Ala			Leu	110	•	Gly
.	Tyr		Asn 100	Lys	, a.			105	Ala			Leu	110	Lys	

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Asp	Ala 130	Ala	Leu	Arg	Ala	Cys 135	Arg	Arg	Leu	Asn	Asp 140	Phe	Ala	Ser	Thr
Val 145	Arg	Ile	Leu	Glu	Val 150	Val	Lys	Asp	Lys	Ala 155	Gly	Pro	His	Lys	Glu 160
Ile	Tyr	Pro	Tyr	Val 165	Ile	Gln	Glu	Leu	Arg 170	Pro	Thr	Leu	Asn	Glu 175	Leu
Gly	Ile	Ser	Thr 180	Pro	Glu	Glu	Leu	Gly 185	Leu	Asp	Lys	Val			
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Leu		Asn	His	His	Phe	Tyr 55	Asp	Glu	Ser	Lys	Pro 60	Phe	Thr	Cys	Leu
Asp 65	Gly	Ser	Ala	Thr	Ile 70	Pro	Phe	Asp	Gln	Val 75	Asn	Asp	Asp	Tyr	Cys 80
Asp	Cys	Lys	Asp	Gly 85	Ser	Asp	Glu	Pro	Gly 90	Thr	Ala	Ala	Cys	Pro 95	Asn
Gly	Ser	Phe	His 100	Cys	Thr	Asn	Thr	Gly 105	Tyr	Lys	Pro	Leu	Tyr 110	Ile	Pro
Ser	Asn	Arg 115	Val	Asn	Asp	Gly	Val 120	Cys	Asp	Суѕ	Cys	Asp 125	Gly	Thr	Asp
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Gly	Phe	Arg		165			Leu		170			Lys	Lys	Ala 175	Arg
Glu			Gln 180	Lys	Lys	Leu	Ile	Glu 185	Leu	Gln		Gly	Lys 190	-	Ser
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		195					200					205			Glu
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	210					215					220				Glu
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225					230					235					Asp 240
							71.0								
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ser		275					280					285			Asp
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Ala	290	ser				295					300		•	_	Pro
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305					310		Phe	_	Asp	315					
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-		T 0	C1		T	G1		T	m b		mh		mb	D	m b
GIÀ	116	rea	20		-	_		25		-		nıs	30		Thr
Gln	Ser	Aen					Gln					T.e.ii	Gl v	Pro	Gly
J_11	UG #	35			rne 		40			ALY		45	_		GIY
Leu	Asn 50					-	Pro								
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met	val	ATS	LVS	val	ASD	GIU	val	LVS	ser	TOF	TTG	LVS	rne	GLD	Met

65					70					75	i				80
Lys	Lys	Val	Leu	Cys 85		Ala	Val	Ala	Val 90		' His	Val	. Lys	Met 95	
Asp	Asp	Glu	Leu 100		туг	Asn	Ile	His 105		Ala	Val	Asn	Phe		Val
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Ser	Thr 130		Gly	Lys	Pro	Gln 135	Arg	Leu	Tyr						
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Thr	Pro	Pro	Asp 20	Pro	Gly	Ala	Ala	Ser 25	Ala	Thr	Ala	Thr	Ala 30	Pro	Ala
Pro	Ala	Ala 35	Ala	Arg	Arg	Gly	Glu 40	Ala	Met	Ala	Lys	Val 45	Ser	Val	Leu
Asn	Val 50	Ala	Val	Leu	Glu	Asn 55	Pro	Ser	Pro	Phe	His 60	Ser	Pro	Phe	Arg
Phe 65	Glu	Ile	Ser	Phe	Glu .70	Cys	Ser	Glu	Ala	Leu 75	Ala	Asp	Asp	Leu	Glu 80
Trp	Lys	Ile	Ile	Tyr 85	Val	Gly	Ser	Ala	Glu 90	Ser	Glu	Glu	Phe	Asp 95	Gln
Ile	Leu	Asp	Ser 100	Val	Leu	Val	Gly	Pro 105	Val	Pro	Ala	Gly	Arg 110	His	Met
Phe	Val	Phe 115	Gln	Ala	Asp	Ala	Pro 120	Asn	Pro	Ser	Leu	Ile 125	Pro	Glu	Thr
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31n 145	Glu	Phe	Ile		Val		Tyr	Tyr		Asn		Glu	Tyr		Asn 160

Pro Glu	Leu A	rg Glu 165		Pro	Pro	Met	Lys 170		Asp	Phe	Ser	Gln 175	
Gln Arg		le Leu 80	Ala	Ser	Asn	Pro 185		Val	Thr	Arg	Phe 190		Ile
Asn Trp	195		Met	Asp				Ala		Glu 205		Gln	Asp
Bro Sor			c1	T 0	Dwa	T		C	77.	D	T1.	T	
Pro Ser 210	Leu G	ry cys	GTÀ	215	PIO	Leu	ASII	Cys	220	PFO	TTE	rys	GIÀ
									220				
Leu Gly		ro Gly	Cys	Ile	Pro	Gly	Leu	Leu	Pro	Glu	Asn	Ser	Met
225													
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Asp Cys		•											
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100 105 Met Pro Ser Pro Tyr Tyr Met Glu Leu Thr Lys Leu Leu Leu Asn His 115 120 Ala Ser Asp Asn Ile Pro Lys Ala Asp Glu Ile Arg Thr Leu Val Lys 135 Asp Met Trp Asp Thr Arg Ile Ala Lys Leu Arg Val Ser Ala Asp Ser 150. 155 🖅 Phe Val Arg Gln Glu Ala His Ala Lys Leu Asp Asn Leu Thr Leu 165 170 Met Glu Ile Asn Thr Ser Gly Thr Phe Leu Thr Gln Ala Leu Asn His 180 185 Met Tyr Lys Leu Arg Thr Asn Leu Gln Pro Leu Glu Ser Thr Gln Ser 195 200 Gln Asp Phe 210 <210> 1057 <211> 407 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (343) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1057 Val Ile Leu Gly Ala Gly Leu Arg Asp Lys Asp Met Trp Ile Pro Val Val Gly Leu Pro Arg Arg Leu Arg Leu Ser Ala Leu Ala Gly Ala Gly 20 Arg Phe Cys Ile Leu Gly Ser Glu Ala Ala Thr Arg Lys His Leu Pro Ala Arg Asn His Cys Gly Leu Ser Asp Ser Ser Pro Gln Leu Trp Pro 50 Glu Pro Asp Phe Arg Asn Pro Pro Arg Lys Ala Ser Lys Ala Ser Leu 65 70

Asp	Phe	Lys	Arg	Tyr 85	Val	Thr	Asp	Arg	Arg 90		Ala	Glu	Thr	Leu 95	Ala
Gln	Ile	Tyr	Leu 100	Gly	Lys	Pro	Ser	Arg 105		Pro	His	Leu	Leu 110		
Суз	Asn	Pro					120				Leu	125			
Ala	Lys 130			Ala	Leu	Glu 135	Ser	Asp	Lys	Thr	Phe 140	Ile	Pro	His	Leu
145	Ser	Leu			Asn 150	Leu	Asp	Gly	Lys	Leu 155		Val	Ile	His	Cys 160
Asp			Lys	165	Asp	Pro	Arg	Ser	Gly 170	Gly	Val	.Ile	Lys	Pro 175	Pro
Ala	Met										Gly				
Pro	Trp	Thr 195	Ala								Gly				
Arg	Gly 210	Glu	Lys	Arg	Ala	Leu 215	Trp	Lys	Leu	Ala	Tyr 220	Asp	Leu	Tyŗ	Ser
Cys 225		Ser	Ile	туг	Lys 230	Phe	Gly	Arg	Ile	Glu 235	Val	Asn	Met	Phe	11e 240
Gly	Glu [.]		Glu			Lys	Leu	Met	Ala 250	Asp	Pro	Gly	Asn	Pro 255	Asp
Leu	Tyr	His	Val 260		Ser	Val	Ile	Trp 265	Gln	Leu	Ala	Cys	Glu 270	Ile	Lys
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Gly	Pro 290	Leu	Glu	Asn	Pro	Lys 295	Arg	Arg	Glu	Leu	Leu 300	Asp	Glņ	Leu	Ģln
Gln 305	Lys	Leu	Tyr	Leu	Ile 310	Gln	Met	Ile	Pro	Arg 315	Gln	Asn	Leu	Phe	Thr 320
Lys	Asn	Leu	Thr	Pro 325	Met	Asn	Tyr	Asn	Ile 330	Phe	Pḥe	His	Leu	Leu 335	Lys
His	Cys	Phe	Gly 340	Arg	Arg	Xaa	Ala	Thr 345	Val	Ile	Asp	His	Leu 350	Arg	Ser

Leu Thr Pro Leu Asp Ala Arg Asp Ile Leu Met Gln Ile Gly Lys Gln 355 360 365

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Trp Gly Val Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser 50 55 60

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Ile	Ala 50	Glu	Asn	Glu	Met	Pro 55	Gly	Leu	Met	Arg	Met 60	Arg	Glu	Arg	Tyr
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	Thr	Val	Glu	Thr 85	Ala	Val	Leu	Ile	Glu 90		Leu	Val	Thr	Leu 95	Gly
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Phe 145										Asp 155	Asp	Gly	Gly	Asp	Leu 160
Thr				165	Thr		Tyr	Pro	Gln 170	Leu				175	
Gly		Ser	Glu 180	Glu	Thr	Thr	Thr	Gly 185	Val	His	Asn				Met
_ : Met	Ala			Ile	Leu		Val 200			Ile		Val 205	Asn	Asp	Ser
	Thr 210		Ser			Asp 215		Leu	Tyr	Gly	Cys 220	Arg	Glu	Ser	Leu
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Leu	Arg		260	Gly	Ala			265		Thr			270		
Asn	Ala	Leu 275	Gln	Ala		Met	Glu 280	Gly	Tyr	Glu	Val	Thr 285	Ţħr	Met	Asp
Glu	Ala 290	Cys	Gln	Glu						Thr					

Asp 305	Ile	Ile	Leu	Gly	Arg 310	His	Phe	Glu	Gln	Met 315	Lys	Asp	Asp	Ala	Ile 320
Val	Cys	Asn	Ile	Gly 325	His	Phe	Asp	Val	Glu 330	Ile	Asp	Val	Lys	Trp 335	Leu
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Pro	,Asp	Lys	Tyr	Pro 405	Val	Gly	Val	His	Phe 410	Leu	Pro	Lys	Lys	Leu 415	Asp
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Lys	Leu	Thr 435	Glu	Lys	Gln	Ala	Gln 440	Tyr	Leu	Gly	Met	Ser 445	Cys	Asp	Gly
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Leu	Glu	Ala	Ser 20	Asp	Gly	Gly	Leu	Asp 25	Ser	Ala	Glu	Leu	Ala -30	Ala	Glu
Leu	Gly	Met 35	Glu	His	Gln	Ala	Val 40.	Val	Gly	Ala	Val	Lys 45	Ser	Leu	Gln

Ala Leu Gly Glu Val Ile Glu Ala Glu Leu Arg Ser Thr Lys His Trp

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Glu 65		Thr	Ala	Glu	Gly 70	Glu	Glu	Ile	Ala	Arg 75	Glu	Gly	Ser	His	Glu 80
	Arg		Phe	Arg 85	Ser	Ile	Pro	Pro	Glu 90	Gly	Leu	Ala	Gln	ser 95	Glu
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His	Leu 370	Ala	Glu	Phe	His	Gln 375	Ile	Glu	Gly	Val	Val 380	Ala	Asp	His	Gly
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	Gly	٠		405		-		_	410		-			415	
	Pro		420					425	.•		_		430		
	Gly	435				-	440					445			
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465	Gly				470	-	-			475			-		480
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Thr Cys Glu Lys Arg Arg Asp Ala Glu Tyr Gly Ala Ser Pro Glu Gln

Val Ala Asp Asn Gly Asp Asp His Ser Glu Gly Gly Leu Val Glu Asn

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		Asp							Gly					Ala	gly
Arg	Lys	Pro		Lys 85		_	Met	-	Glu 90	Leu	Ala	Val	Phe	Arg 95	Glu
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Pro	130	Gln.	Gln.	.Glu	Leu	Asp 135	Gln	Val	Leu	Glu	Arg 140	Ile	Ser	Thr	Met
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Cys		Leu	Phe	Tyr	Asn	Glu 215	Gln	Gln	Glu	Ala	Arg 220	Glý	Val	His	Thr
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Ser	Gly	Phe	Asn 20	Ala	Met	Glu	Asp	Ala 25	Gln	Thr	Leu	Arg	Lys 30	Ala	Met
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Ile 65	Gly	Arg	Asp	Leu	Ile 70	Asp	Asp	Leu	Lys	Ser 75		Leu	Ser	Gly	Asn 80
Phe	Glu	Gln	Val	Ile 85	Val	Gly	Met	Met	Thr 90		Thr	Val	Leu	Tyr 95	Asp
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Ser	Ala	Gly	Gly	Arg 165	Asp	Glu	Gly	Asn	туr 170	Leu	Asp	Asp	Ala	Leu 175	Val
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His	Leu 210	Leu	His	Val	Phe	Asp 215	Glu	туг	Lys	Arg	Ile 220	Ser	Gln	Lys	Asp
Ile 225	Glu	Gln	Ser	Ile	Lys 230	Ser	Glu	Thr	Ser	Gly 235	Ser	Phe	Glu	Asp	Ala 240
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Leu	Ile	Arg 275	Val	Met	Val	Ser	Arg 280	Ala	Glu	Ile	Asp	Met 285	Leu	Asp	Ile
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Gly Gly Asp Asp

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 Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr Val
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 Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu Glu
Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala Asn
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Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr Ala
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Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp Leu
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А	.rg	Arg 130	Leu	Cys	Lys	Thr	Val 135	Gly	Ala	Thr	Ala	Leu 140	Pro	Arg	Leu	Th
	ro 45	Pro	Val	Leu	Glu	Glu 150	Met	Gly	His	Cys	Asp 155		Val	Tyr	Leu	Se:
G	lu	Val	Gly	Asp	Thr 165	Gln	Val	Val	Val	Phe 170	Lys	His	Glu	Lys	Glu 175	Asp
G	ly	Ala	Ile	Ser 180	Thr	Ile	Val	Leu	Arg 185	Gly	Ser	Thr	Asp	Asn 190	Leu	Met
A	sp	Asp	Ile 195	Glu	Arg	Ala	Val	Asp 200	Asp	Gly	Val	Asn	Thr 205	Phe	Lys	Va]
L	eu	Thr 210	Arg	Asp	Lys	Arg	Leu 215	Val	Pro	Gly	Gly	Gly- 220	Ala	Thr	Glu	Ile
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G	lu	Gln	Tyr	Ala	Ile 245	Lys	Lys	Phe	Ala	Glu 250	Ala	Phe	Glu	Ala	Ile 255	Pro
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Lys	Gly	Ile	100		Asn	Glu	Arg	Ser 105		/ Arg	, Ala	Arg	y Val		Val
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Thr	Met	Ser	Val	ser 165	Leu	Val	Ala	Asp	Glu 170		Pro	Phe	Ala	Gln 175	_
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Glu 305	Gly	Ser	Asn		Val 310	Pro	Val	Asp	Pro	Ala 315	Thr	туг	Gly		Phe 320
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Gly	Arg	Phe	Val	Ile	Glu	Glu	Val	Pro	Gly	Glu	Leu	Met	Gln	Glu	Asp
	530					535					540				
T.Au	Ala	Ψh'r-) en	Acn	Va l	Wet	Leu	Lau	nen.	Thr.	Tro	Acn	Gln	17a 1	Dhe
545	AIG	1111	vaħ	vab	550	Mec	rea	Leu	vaħ	555	115	лэр	GIII	Vai	560
						:	:							-	• • •
Val	Trp	Val	Gly	Lys	Asp	Ser	Gln	Glu	Glu	Glu	Lys	Thr	Glu	Ala	Leu
		-		565					570		_			575	
						· · · · .			-7	_	-		_		
Thr	Ser	Ala		Arg	Tyr	Ile	Glu		Asp	Pro	Ala	Asn		Asp	Arg
			580	-		-		585			,		590	-	
Arg	Thr	Pro	Ile	Thr	Val	Val	Lys	Gln		Phe	Glu	Pro	Pro	Ser	Phe
-		595					600		•			605			
-	••	-		·· ·	. : :		÷		. 1		25				

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<211> 117

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Tyr Tyr Asp Cys His Glu Cys Thr Glu Thr Phe Thr Ser Ser Thr Ala 35 40 45

Phe Ser Glu His Leu Lys Thr His Ala Ser Met Ile Ile Phe Glu Pro 50 55 60

Ala Asn Ala Phe Gly Glu Cys Ser Gly Tyr Ile Glu Arg Ala Ser Thr 65 70 75 80

Ser Thr Gly Gly Ala Asn Gln Ala Asp Glu Lys Tyr Phe Lys Cys Asp 85 90 95

Val Cys Gly Gln Leu Phe Asn Asp Arg Leu Ser Leu Ala Arg His Gln
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Asn Thr His Thr Gly 115

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<213> Homo sapiens

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Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu Ser Thr Cys Pro Pro

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65					Val 70				-	75					Pro 80
					Val				-						Glu
Tyr		Pro			Pro										Leu
Arg		Asp			Thr										Lys
	Ile		Val	Ģlu	Glņ			Lys	Leu	Ala			Ile	Gly	Ala
	130 Cys		Val	. Glu	.Cys.	135 Ser	Ala	Leu.	Thr	Gln	140	Gly	Leu.	Lys	Thr
145				·	150			٠		155					160
Val.	Phe	Asp	GLu.	165	Ile	.Ile <u>.</u>	Ala	Ile	170	Thr-	Pro	Lys		H15;	Thr
Val	Lys	Lys	Arg 180		Gly	Ser	Arg	Cys _: 185	Ile	Asn	Сув	Cys_	Leu 190	Ile	Thr
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Glu	Gln	Glu 35	Glu	Glu	Arg		Asp 40	Gly			Leu		Met	Ala	Gln

Gln	His 50		Gly	Gly	Val	. Gln 55		Leu	ı Val	. Asn	Thr 60		Phe	. Ser	Phe
Leu 65	Arg	Arg	Lys	Thr	Asp 70		Phe	: Ile	Gly	Gly 75		Glu	Gly	Met	Ala 80
Glu	Lys	Leu	Ile	Thr 85		Thr	Phe	Ser	His	His	Asn	Gln	Leu	Ala 95	
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Lys	Ala	Glu 115		Ala	Ala	Arg	Leu 120	Ala	Lys	Glu	Ala	Lys 125		Glu	Thr
Ser	Gly 130	Pro	Gln	Ile	Lys	Glu 135	Leu	Thr	Asp	Glu	Glu 140		Glu	Arg	Leu
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Leu	Lys	Asn	Gly	Ser 165	Leu	Asp	Ser	Pro	Gly 170	Lys	Gln	Asp	Thr	Glu 175	Glu
Asp	Glu	Glu	Glu 180	Asp	Glu	Lys	Asp	Lys 185	Gly _.	Lys	Leu	Lys	Pro 190	Asn	Leu
Gly	Asn	Gly 195	Ala	Asp	Leu	Pro.	Asn 200	Tyr	Arg	Trp	Thr	Gln 205	Thr	Leu	Ser
Glu	Leu 210	Asp.	Leu	Ala	Val	Pro 215	Phe	Cys	Val	Asn	Phe 220	Arg	Leu	Lys	Gly
Lys 225	Asp	Met	Val	Val	Asp 230	Ile	Gln	Arg	Arg	His 235	Leu	Arg	Val	Gly	Leu 240
Lys	Gly	Gln	Pro	Ala 245	Ile	Ile	Asp	Gly	Glu 250	Leu	Tyr	Asn	Glu	Val 255	Lys
Val	Glu	Glu	Ser 260	Ser	Trp	Leu	Ile	Glu 265	Asp	Gly	Lys	Val	Val 270	Thr	Val
His	Leu	Glu 275	Lys	Île	Asn	Lys	Met 280	Glu	Trp	Trp	Ser	Arg 285	Leu	Val	Ser
Ser	Asp 290	Prò	Glu	Ile	Asn	Thr 295	Lys	Lys	Ile	Asn	Pro 300	Glu	Asn	Ser	Lys
Leu 305	Ser.	qeA	Leu	Asp	Ser 310	Glu	Thr	Arg	Ser	Met 315	Val	Glu	Lys	Met	Met 320

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Туг	Asp	Gln	Arg	Gln 325	Lys	Ser	Met	Gly	Leu 330	Pro	Thr	Ser	Asp	Glu 335	Gln	
Lys	Lys	Gln	Glu 340	Ile	Leu	Lys	Lys	Phe 345	Met	Asp	Gln	His	Pro 350	Glu	Met	
Asp	Phe	Ser 355	Lys	Ala	Lys	Phe	Asn 360									
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Ala	Ala	Asp	Gly 20	Ser	Ser	Thr	Leu	Gly 25		Gly	Ala	Gly	Thr 30	Met	Gly	
Leu:	Ser	Ala 35	Arg	Tyr	Gly	Pro	Gln 40	Phe	Thr	. Leu:	Gln	His	Val	Pro.	Asp	
Tyr	Arg 50	Gln	Xaa	Val	Tyr	Ile 55	Pro	Gly	Ser	Asn	Ala 60	Thr	Leu	Thr	Asn	
Ala 65	Ala	Gly	Lys	Arg	Gly 70	Trp	Gln	Gly	Pro	Ser 75	Arg	· Trp	Gln	Trp	Gln 80	
Gln	Glu	Glu					_					Trp		Pro 95	Gly	
Gln	Glu	Pro	Gln 100	Gly	Gly	Leu	Ser	Pro 105	Thr	Ser	Pro	Ala	Ser 110	Pro	Tyr	
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Gly	Ala 130	Lys	Ala	Met	Leu	Pro 135	Leu	Gly	Asn	-	Asn 140	Lys	Cys	Pro	.Val	
Ser 145	Thr	Tyr	Pro	Phe	Pro 150	Pro	Arg	Gly	Leu	Asn 155	Met	Gln	Lys	Gln	Phe 160	

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200

205

Glu	Lys 210		Thr	Asp	Pro	Asp 215		Pro	Leu	Ala	Asp 220		Asn	Ile	Lys
Asp 225	Arg	Tyr	Tyr		Ile 230			Pro	Val	Ala 235	Asp	Lys	Leu	Leu	Lys 240
Arg	Ala	Ser	Thr	Met 245	Pro	Arg		Asp	Pro 250	Pro	Glu	Asp	Lys	Thr 255	
					Gly							Thr	Glu 270	Thr	: Asp
Leu	Arg	Asn 275	His	Phe	Tyr	Gln	Phe 280	Gly	Glu	Ile	Arg	Thr 285	Ile	Thr	Val
	Gln 290	Arg	Gln	Gln	Cys	Ala 295	Phe	Ile	Gln	Phe	Ala 300	Thr	Arg	* -	
Ala 305	Glu	Val	Ala	Ala	Glu 310	Lys	Ser	Phe	Asn	Lys	Leu	Ile	Val	Asn	Gly 320
Arg	Arg	Leu	Asn	Val 325	Lys	Trp	Gly	Arg	Ser 330	Gln	Ala	Ala	Arg	Gly 335	Lys
Glu		Glu			Gly	Thr	Thr	Asp 345	Ser	Gly	Ile	Lys	Leu 350	Glu	Pro
	Pro		Leu	Pro	Gly	Ala	Leu 360	Pro	Pro	Pro	Pro	Ala 365	Ala	Glu	Glu
Glu	Ala 370	Ser	Ala,	Asn	Tyŗ	Phe 375	Asn	Ļeu	Pro	Pro_	Şer 380	Gly	Pro	Pro	Ala
Val 385	Val	Asņ	Ile	Ala	Lеџ 390	Pŗo	Pro	Pro	Ь̀іо	Gly 395	Ile	Alạ	Pro	Pro	Pro 400
Pro	Pro	Gly	Phe	Gly 405	Pro	His	Met	Phe	His 410	Pro	Met	Gly	Pro	Pro 415	Pro
Pro	Phe	Met	Arg 420	Ala	Pro	Gly	Pro	Ile 425		Tyr	Pro		Glņ 430	Asp	Pro
Gln	Arg	Met 435	Gjà	Aļa	His	Ala	Gly 440	Lys	His	Ser	Ser	Pro 445			
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Thr Glu Leu Phe Val Lys Glu Asn His Glu Leu Arg Ile Ala Gly Gly
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Ala Val Arg Asp Leu Leu Asn Gly Val Lys Pro Gln Asp Ile Asp Phe
Ala Thr Thr Ala Thr Pro Thr Gln Met Lys Glu Met Phe Gln Ser Ala
Gly Ile Arg Met Ile Asn Asn Arg Gly Glu Lys His Gly Thr Ile Thr
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Ala Arg Leu His Glu Glu Asn Phe Glu Ile Thr Thr Leu Arg Ile Asp
                                105
Val Thr Thr Asp Gly Arg His Ala Glu Val Glu Phe Thr Thr Asp Trp
        115
Gln Lys Asp Ala Glu Arg Arg Asp Leu Thr Ile Asn Ser Met Phe Leu
Gly Phe Asp Gly Thr Leu Phe Asp Tyr Phe Asn Gly Tyr Glu Asp Leu
145
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Lys	Asn	Lys	Lys	Val 165	Arg	Phe	Val	Gly	His 170		Lys	Gln	Arg	11e 175	Gln
Glu	Asp	Tyr	Leu 180	Arg	Ile	Leu	Arg	Tyr 185	Phe	Arg	Phe	Tyr	Gly 190	Arg	Ile
Val		Lys 195	Pro	Gly	Asp	His	Asp 200	Pro	Glu	Thr	Leu	Glu 205	Ala	Ile	Ala
C1			 •				C1	7 1.	C	61	Cl	3	* 1		
	210		Lys	GIY	Leu	215	GIA	ite	ser	GIA	220		116	ттр	vai
Glu	Leu	Lys	Lys	Ile	Leu	Val	Gly	Asn	His	Val	Asn	His	Leu	Ile	His
225	•				230	. ···a		• • • • • •		:235		î. n.	:11.1	٠, .	240
Leu	Ile		Asp		-				_		_				
		•		~ 3	-	-		••- •		•		••- •	•	63	
Ala	ser	Leu	Glu 260										270		
Ser	Pro	Lys 275	Pro										Xaa		Asp
Asp	Val 290		Lys				-		_		Ala 300	_	Glu		_
Asn 305	Leu	Gly	Leu				_		-		Asp			Lys	
Thr	Asp	Ser	Ser	Asp	Pro	Leu	Lys	Pro	Tyr	Gln	Asp	Phe	Ile	Ile	Asp
				325	. - ·	-	. :-		330		•	1	:	335	
ser	Arg	Glu	Pro	Asp	Ala	His	Ser	Cys	Met					•	
		- '	340				-	3,45	:			•	*		
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	2> (,													
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Leu	Glu	Arg	Pro 20		Thr	Leu	Ala	Leu 25		Val	Gly	Ser	Gln .30		Ala
Val	Met	Met 35		Leu	Ser	Leu	Gly .40		Phe		Ser			Ala	Leu
Phe	Gly 50	Arg	Asp	Gln	Gly	Pro	Thr	Phe	Asp	Tyr	Ser 60		Pro	Arg	Asp
Val 65	Туг	Ser	Asn	Leu	Ser 70	His	Leu			Ala .75	Pro	Xaa	Gly	Pro	Pro 80
Xaa	Pro	Gln	Gly	Leu 85	Pro	Tyr	Cys	Pro	Glu 90		Ser	Pro	Leu	Leu . 95	Val
Gly	Pro	Val	Ser 100	Val	Ser	Phe	Ser	Pro 105	Val	Pro	Ser	Leu	Ala 110	Glu	Ile
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Arg 145		His	His	Leu	Arg 150	Leu	Leu	Leu	туг	His 155	Leu	His	Pro	Phe	Leu 160
Gln	Arg	Gln	Gln	Leu 165	Ala	туг	Gly	Ile	туг 170	Val	Ile	His	Gln	Ala 175	Gly
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Ala	Leu	Arg 195	Asp	Glu	Glu	Trp	Asp 200	Cys	Leu	Phe	Leu	His 205	Asp	Val	Asp
Leu	Leu 210	Pro	Glu	Asn	Asp	His 215	Asn	Leu	Tyr	Val	Cys 220	Asp	Pro	Arg	Gly
Pro 225	Arg	His	Val	Ala	Val 230	Ąla	Met	Asn	Lys	Phe 235	Gly	Tyr	Ser	Leu	Pro 240
Tyr	Pro	Gln		Phe	Gly	Gly	Val		Ala 250		Thr	Pro	Asp	Gln 255	Tyr

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Asp Asp Asp Ile Ala Thr Arg Val Arg Leu Ala Gly Met Lys Ile Ser
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                                                                    280
Arg Pro Pro Thr Ser Val Gly His Tyr Lys Met Val Lys His Arg Gly
                                       295
Asp Lys Gly Asn Glu Glu Asn Pro His Arg Phe Asp Leu Leu Val Arg
305 310
                                                                                                315 320
Thr Gln Asn Ser Trp Thr Gln Asp Gly Met Asn Ser Leu Thr Tyr Gln
                              325 330 335
Leu Leu Ala Arg Glu Leu Gly Pro Leu Tyr Thr Asn Ile Thr Ala Asp
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Ile Gly Thr Asp Pro Arg Gly Pro Arg Ala Pro Ser Gly Pro Arg Tyr
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                                                                                           365
Pro Pro Gly Ser Ser Gln Ala Phe Arg Gln Glu Met Leu Gln Arg Arg
                     375
Pro Pro Ala Arg Pro Gly Pro Leu Ser Thr Ala Asn His Thr Ala Leu
385 390
                                                                                                  395
Arg Gly Ser His
      in the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contra
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35 40 45 Glu Lys Arg Asn Pro Ile Arg Lys Phe Val Arg Thr Pro Glu Ser Val 50 55 His Ala Ser Xaa Ser Ser Ser Asp Ser Ser Phe Glu Pro Ile Pro Leu Thr Ile Lys Ala Ile Phe Glu Arg Phe Lys Asn Arg Lys Lys Arg Tyr 85 90 Lys Lys Lys Lys Arg Arg Tyr Gln Pro Thr Gly Arg Pro Arg Gly 105 Arg Pro Glu Gly Arg Arg Asn Pro Ile Tyr Ser Leu Ile Asp Lys 120 Lys Gln Phe Arg Ser Arg Gly Ser Gly Phe Pro Phe Leu Glu Ser Glu 140 Asn Glu Lys Asn Ala Pro Trp Arg Lys Ile Leu Thr Phe Glu Gln Ala 155 Val Ala Arg Gly Phe Phe Asn Tyr Ile Glu Lys Leu Lys Tyr Glu His 165 His Leu Lys Glu Ser Leu Lys Gln Met Asn Val Gly Glu Asp Leu Glu 180 Asn Glu Asp Phe Asp Ser Arg Arg Tyr Lys Phe Leu Asp Asp Asp Gly 200 Ser Ile Ser Pro Ile Glu Glu Ser Thr 210 <210> 1074 <211> 161 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (110) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122)

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Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Glu	Gln	Pro	Ser	Pro	Ala	Ser
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Pro	Ala	Ala	Val	Pro	Thr	Pro	Thr	Gln	Val	Ser	Leu	Thr	Gln	Val	Ser
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Pro	Lys	Glu	Pro	Ser	Thr	Va:1	Ser	Ala	Ser	Ser	Phe	Leu	Trp	Leu	Cys
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Pro	Lys	Leu	Trp	Gly	Leu	Trp	Pro	Ser	Ser	Glu	Gly	Gly	Cys	Phe	Leu
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			-								*				•
Asn	His	His	Arg	Arg	His	His	Arg	Cys	Arg	Arg	Gln	Arg	Xaa	Asn	Ser
			100					105					110		
		•	•			-	-	•		•					
Cys	Asp	Arg	Ala	Val	Val	Ser	Lys	Ala	Xaa	Xaa	Leu	Xaa	Ala	Ala	Xaa
		115					120					125			
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Phe	Trp	Gly	Leu	Leu	Leu	Ile	Gln	Ile	Leu	Met	Leu	Arg	Gln	Ala	Ile
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Lys

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Lys.	Asp	Ile 35	Arg	Trp	Leu	Val	11e 40	Ser	Leu	Leu	Glu	Asp 45	Glu	Gln	Lei
Glu	Val 50		Glu	Met	Ala	Ala 55	Thr	Thr	Leu	Ser	Gly 60		Leu	Gln	Су
Asn 65	Phe	Leu	Thr	Met	Asp 70	Ser	Pro	Met	Gln	11e 75		Phe	Glu	Gln	Let 80
Cys	Lys	Thr	Lys	Leu 85	Pro	Lys	Lys	Arg	Lys 90	Arg	Asp	Pro	Gly	Ser 95	Va]
Gly	Asp	Thr	Ile 100	Pro	Ser	Ala	Glu	Leu 105	Val	Lys	Arg	His	Ala 110	Gly	Val
Leu	Gly	Leu 115	Gly	Ala	Cys	Val	Leu 120	Ser	Ser	Pro	Tyr	Åsp 125	Val	Pro	Thr
Trp	Met 130	Pro	Gln	Leu	Leu	Met 135	Asn	Leu	Ser	Ala	His 140	Leu	Asn	Asp	Pro
Gln 145	Pro	Ile	Glu	Met	Thr 150	Val	Lys	Lys	Thr	Leu 155	Ser	Asn	Phe	Arg	Arg
Leu	Thr	Met	Thr	Thr 165	Gly	Arg	Asn	Ile	Asn 170	Ser	Asn	Ser	Leu	Met 175	Thr
Asn	Cys	Leu	Phe 180	Ser	Pro	Ile	Phe 	Leu 185	Cys	His	His	Ala	Ile 190	Met	His
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<220>
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Val Leu Arg Cys Glu Gly Glu Xaa Trp Leu Phe Asp Cys Gly Glu Gly - . 55 Thr Gln Thr Gln Leu Met Lys Ser Gln Leu Lys Ala Gly Arg Ile Thr 70 - 75 Lys Ile Phe Ile Thr His Leu His Gly Asp His Phe Phe Gly Leu Pro 90 Gly Leu Leu Cys Thr Ile Ser Leu Gln Ser Gly Ser Met Val Ser Lys 100 105

Gly Thr Gly Ala Ala Tyr Pro Ser Pro Thr Arg Gly Ala Ser Ala Val

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Gln Pro Ile Glu Ile Tyr Gly Pro Val Gly Phe Gly Thr Leu Ser Gly
115 120 125
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His Glu Leu Val Pro Thr Ala Asp Gln Cys Pro Ala Glu Gly Thr Lys 145 150 155 160

Arg Ile Xaa Ala Cys Xaa 165

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1077

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Lys Thr Pro Ala Pro Ser Met Arg Xaa Lys Met Gly Asn Gly Thr Glu 20 25 30

Glu Asp Tyr Asn Phe Val Phe Lys Val Val Leu Ile Gly Glu Ser Gly 35 40 45

Val Gly Lys Thr Asn Leu Leu Ser Arg Phe Thr Arg Asn Glu Phe Ser 50 55 60

His Asp Ser Arg Thr Thr Ile Gly Val Glu Phe Ser Thr Arg Thr Val 65 70 75 80

Met Leu Gly Thr Ala Ala Val Lys Ala Gln Ile Trp Asp Thr Ala Gly 85 90 95

Leu Glu Arg Tyr Arg Ala Ile Thr Ser Ala Tyr Tyr Arg Gly Ala Val 100 105 110

Gly Ala Leu Leu Val Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val 115 120 125

Val Glu Arg Trp Leu Lys Glu Leu Tyr Asp His Ala Glu Ala Thr Ile

	130					135					140		•		
Val 145	Val	Met	Leu	Val	Gly 150		Lys	Ser	Asp	Leu 155		Gln	Ala	Arg	Glu 160
Val	Pro	Thr		Glu 165	Ala	Arg	Met	Phe	Ala 170	Glu	Asn	Asn	Gly.	Leu 175	Leu
Phe	Leu	Glu	Thr. 180	Ser	Ala	Ľeu	Aśp	Ser 185		Asn	Val	Glu	Leu 190	Ala	Phe
Glu	Thr	Val 195		Lys	Glu	Ile	Phe 200		Lys	Val	Ser	Lys 205	Gln	Arg	Gln
Asn	Ser 210	Ile	Arg	Thr	Asn		Ile		Ser	Gly	Ser. 220	Ala	Gln	Ala	Gly
Gln 225	Glu	Pro	Gly	Pro	_	Glu	-	Arg	Ala	Cys 235	_	Ile	Ser	Leu	∴.
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<21 <21	2> P	71		ene	-	*	* =		: .	·					* •
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			A. :		773					:			. :		
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<400)> 1	078: _	٠. ز.		1744			1					•	. ·.	
Ile 1	Leu	Lys	Gly	Ser 5	Ser	Gly	Ser	Val	Trp 10	Leu	Arg	Asn	Leu	Gln 15	Leu
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GIŸ	Leu	Phe	20 	Thr	Ala	Leu	Gly	Leu 25	Val	Gly	Leu	Trp	Trp 30	Ala	Glu
Gly	Thr	Ala 35		Ala	Thr	Arg	Gly 40	Phe	Phe	Phe	Gly	Tyr 45	Thr	Pro	Ala
Val	Trp 50	Gly		Val	Leu	Asn 55	Gln	Ala	Phe	Gly	Gly 60	Leu	Leu	Val	Ala
Val 65	Val	Val	-	Tyr	Ala 70	Asp	Asn	Ile	Leu	Lys 75	Gly	Phe	Ala	Thr	Ser 80
Leu	Ser	Ile	Val	Leu 85	Ser	Thr	Val	Ala	Ser 90	Ile	Arg	Leu	Phe	Gly 95	Phe

His Val Asp Pro Leu Phe Ala Leu Gly Ala Gly Leu Val Ile Gly Ala 100 105 Val Tyr Leu Tyr Ser Leu Pro Arg Gly Ala Xaa Lys Ala Ile Ala Ser Ala Ser Ala Ser Ala Ser Gly Pro Cys Val His Gln Gln Pro Pro Gly Gln Pro Pro Pro Pro Gln Leu Ser Ser His Arg Gly Asp Leu Ile Thr . 150 155 Glu Pro Phe Leu Pro Lys Ser Val Leu Val Lys 165 <210> 1079 <211> 141 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1079 Arg Arg Val Cys His Ser Ser Pro His Leu Ser Ser Pro Arg Ala Ala Cys Glu Gln Gln Ala Val Ala Leu Thr Leu Gln Glu Asp Arg Ala Ser 25 Leu Thr Leu Ser Gly Gly Pro Ser Ala Leu Ala Phe Asp Leu Ser Lys Val Pro Gly Pro Glu Ala Ala Pro Arg Leu Xaa Ala Leu Thr Leu Gly Leu Ala Lys Arg Val Trp Ser Leu Glu Arg Arg Leu Ala Ala Glu 70 Glu Thr Ala Val Ser Pro Arg Lys Ser Pro Arg Pro Ala Gly Pro Gln 85 90 Leu Phe Leu Pro Asp Pro Asp Pro Gln Arg Gly Gly Pro Gly Pro Gly 105 100

Val Arg Arg Cys Pro Gly Glu Ser Leu Ile Asn Pro Gly Phe Lys

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	Pro	Cvs	Glv	Ser	Val	Trp	Leu	Glu	His	Ala	Ile	Ala	Met	Ile	Cvs	Glv
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	Asn	Va l	Cve	T.e.u	Trn	Tue	Gly	Δla	Dro	Thr	Thr	Sar	Len	Ile	Sar	t/a 1
		V 44 1	35		110			140		1111	1111		. 45	110	Ser	Val
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		Ala	Ile											Gly		•
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	Met	Ala	Lys	Asp	Glu	Arg	Val	Asn	Leu	Leu	Ser	Phe	Thr	Gly	Ser	Thr
					85		-			90					95	
	Gln	Val	Gly	Lys	Gln	Val			Met	Val	Gln	Glu	Arg	Phe	Gly	Arg
				100				•	105					110		
	Ser	Leu	Leu	Glu	Leu	Gly	Gly	Asn	Asn	Ala	Ile	Ile	Ala	Phe	Glu	Asp
			115					120					125			
	Ala	Asp	Leu	Ser	Leu	Val	Val	Pro	Ser	Ala	Leu	Phe	Ala	Ala	Val	Gly
		130					135					140				•
	Thr	Ala	Glv	Gln	Ara	Cvs	Thr	Thr	Δla	Ara	Ara	Len	Phe	Ile	His	Glu
	145		- 1		**** 9	150					155	200	1			160
						130						•				100
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	261	116	птэ	мsр		va.	val	MSII	wrd		ъys	пÄЗ	WIG	TAL		GIII
					165	•		•	•	170					175	
	T1 -	N == =	••. •			D===				•		• .		~ 1 = 1		
	тте	Arg	val	GIĀ	Asn	PTO	Trp	Asp	Pro	ASN	val	Leu	Tyr	Gly	PIO	Leu
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Ser Lys Lys Pro Ala Gly Gly Val Asp Phe Asp Glu Thr

			180	1				185					190)	
His	Thr	Lys 195		Ala	Val	Ser	Met 200		Leu	Gly	Ala	Val 205		Glu	a Ala
Lys	Lys 210		Gly	Gly	Thr	Val 215	Val	туг	Gly	Gly	Lys 220		Met	Asp	Arg
Pro 225	Gly		Tyr		Glu 230		Thr	Ile	Val	Thr 235	Gly	Leu	Gly	His	Asp 240
Ala	Ser	Ile	Ala	His 245		Glu	Thr	Phe			Ile	Leu	Tyr	Val 255	
Lys	Phe	Lys	Asn 260		Glu	Glu	Val	Phe 265	Ala	Trp	Asn		Glu 270	Val	Lys
Gln	Gly	Leu 275	Ser	Ser	Ser	Ile	Phe 280	Thr	Lys	Asp	Leu	Gly 285		Ile	Phe
Arg	Trp 290	Leu	Gly	Pro	Lys	Gly 295	Ser	Asp	Cys	Gly	11e 300	Val	Asn	Val	Asn
Ile 305	Pro	Thr	Ser	Gly	Ala 310	Glu	Ile	Gly	Gly	Ala 315	Phe	Gly	Gly	Glu	Lys 320
His	Thr	Gly	Gly	Gly 325	Arg	Glu	Ser	Gly	Ser 330	Asp	Ala	Trp	Lys	Gln 335	Tyr
Met	Arg	Arg	Ser 340	Thr	Cys	Thr	Ile	Asn 345	Tyr	Ser	Lys	Asp	Leu 350	Pro	Leu
Ala	Gln	Gly 355	Ile	Lys	Phe	Gln	~							÷	
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<212	.> 13 !> PF !> Ho	RT.	apie	ens											·
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Ala	Leu	Thr	Met 20	Thr	Gln	Gln	Gly	Ala 25	Ala	Leu	Gln	Asn	Tyr 30	Asn	Asn
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20 25 30

Ser Phe Ile Leu Val Thr Thr Ala Leu Xaa Met Gly Arg Glu Ile Ser 35 40 45

Ala Leu Glu Asp Cys Ala Gln Glu Gln Met Arg Leu Arg Ala Gln Val
50 55 60

Arg Leu Leu Glu Thr Arg Val Lys Gln Gln Gln Val Lys Ile Lys Gln 65 70 75 80

Leu Leu Gln Glu Asn Glu Val Gln Phe Leu Asp Lys Gly Asp Glu Asn 85 90 95

Thr Val Val Asp Leu Gly Ser Lys Arg Gln Tyr Ala Asp Cys Ser Glu

			100					105					110		
Ile	Phe	Asn 115	Asp	Gly	туг	Lys	Leu 120	Ser	Gly	Phe	Tyr	Lys 125	Ile	Lys	Pro
Leu	Gln 130	Ser	Pro	Ala	Glu	Phe 135	Ser	Val	Tyr	Cys	Asp 140	Met	Ser	Asp	Gly
Gly 145	Gly	Trp	Thr	Val	Ile 150	Gln	Arg	Arg	Ser	Asp 155	Gly	Ser	Glu	Asn	Phe 160
Asn	Arg	Gly	Trp	Lys 165	Asp	Tyr	Glu	Asn	Gly 170	Phe	Gly	Asn	Phe	Val 175	Gln
Lys	His	Gly	Glu 180	Туг	Trp	Leu	Gly	Asn. 185	Lys	Asn	Leu	His	Phe 190	Leu	Thr
Thr	Gln	Glu 195	Asp	туг	Thr	Leu	Lys 200	Ile	Asp	Leu	Ala	Asp 205	Phe	Glu	Lys
Asn	Ser 210	Arg	Tyr	Ala	Gln	Tyr 215	Lys	Asn	Phe	Lys	Val. 220	Gly	Asp	Glu	Lys
Asn 225	Phe	Tyr	Glu	Leu	Asn 230	Ile	Gly	Glu	Tyr	Ser 235	Gly	Thr	Ala	Gly	Asp 240
Ser	Leu	Ala	Gly	Asn 245	Phe	His	Pro	Glu	Val 250	Gln	Trp	Trp	Ala	Ser 255	His
Gln	Arg	Met	Lys 260	Phe	Ser	Thr	Trp	Asp 265	Arg	Asp	His	Asp	Asn 270	Tyr	Glu
Gly	Asn	Cys 275	Ala	Glu	Glu	Asp	Gln 280	Ser	Gly	Trp	Trp	Phe 285	Asn	Arg	Cys
His	Ser 290	Ala	Asn	Leu	Asn	Gly 295	Val	Tyr	Tyr	Ser	Gly 300	Pro	Tyr	Thr	Ala
Lys 305	Thr	Asp	Asn	Gly	11e 310	Val	Trp	туг	Thr	Trp. 315	His	Gly	Trp	Trp	Tyr 320
Ser	Leu	Lys	Ser	Val 325	Val	Met	Lys	Ile	Arg 330	Pro	Asn	Asp	Phe	Ile 335	Pro
Asn	Val	Ile													

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Lys 1	Ser	Leu	Asn	Gly 5	Pro	Ala	Asp	Phe	Glu 10	Lys	Arg	Val	Glu	Gly 15	Gly
Gly	Arg	Pro	Arg 20	Ala	Pro	Leu	Val	Asn 25	Ala	Leu	Leu	Thr		Pro	Glu
Phe	Leu	Ile 35	Tyr	Thr	Gly	Cys	Met 40	Val	Суз	Val	Phe	Leu 45	Phe	Cys	Phe
Ser	Pro 50	Pro	Ala	Gly	Leu	Phe 55	Xaa	Gly	Trp	Gly	Gly 60	Gly	Phe	Ala	Met
Ser 65	Asp	Asp	Asp	Ser	Arg 70	Ala	Ser	Thr	ser	Ser 75	Ser	Ser	Ser	Ser	Ser 80
Ser	Asn	Gln	Gln	Thr 85	Glu	Lys	Glu	Thr	Asn 90	Thr	Pro	Lys	Lys	Lys 95	Glu
Ser	Lys	Val	Ser 100	Met	Ser	Lys	Asn	Ser 105	Lys	Leu	Leu	Ser	Thr 110	Ser	Ala
Lys	Arg	Ile 115	Gln	Lys	Glu	Leu	Ala 120	Asp	Ile	Thr	Leu	Asp 125	Pro	Pro	Pro
Asn	Cys 130	Ser	Ala	Gly	Pro	Lys 135	Gly	Asp	Asn	Ile	Tyr 140	Glu	Trp	Arg	Ser
Thr 145	Ile	Leu	Gly	Pro	Pro 150	Gly	Ser	Val	Tyr	Glu 155	Gly	Gly	Val	Phe	Phe 160
Leu	Asp	Ile	Thr	Phe 165	Thr	Pro	Glu	Tyr	Pro 170	Phe	Lys	Pro	Pro	Lys 175	Val
Thr	Phe	Arg	Thr 180	Arg	Ile	Tyr	His	Cys 185	Asn	Ile	Asn	Ser	Gln 190	Gly	Val
Ile	Çys	Leu 195	Asp	Ile	Leu	Lys	Asp 200	Asn	Trp	Ser	Pro	Ala 205	Leu	Thr	Ile
Ser	Lys 210	Val	Leu	Leu	Ser	Ile 215	Cys	Ser	Leu	Leu	Thr 220	Asp	Cys	Asn	Pro

A1a 225	. Asp	Pro	Leu	. Val	Gly 230		· Ile	e Ala	Thr	Gln 235		Met	Thr	Asn	Arg 240
Ala	Glu	His	Asp			Ala	Arg		Trp 250		Lys	Arg	Tyr	Ala 255	Thr
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Glu		084 Cys	Val	Ser	Phe	Ser	Ala	Val	Leu	Lys	Ser	Leu	Ser	Pro	Val
1 Asp	Pro	Val	Glu	5 Pro	Ile	Ser	Asn	Ser	10 Glu	Pro	Ser	Met	Asn	15 Ser	Asp
Met	Gly	Lys	20 Val	Ser	Lys	Asn	Asp	25 Thr	Glu	Glu	Glu	Ser	30 Asn	Lys	Ser
Ala	Thr	35 Thr	Asp	Asn	Glu	Ile	40 Ser	Arg	Thr	Glu	Tyr	45 Leu	Cys	Glu	Asn
Ser	50 Leu	Glu	Gly	Lys	Asn	55 Lys	Asp	Asn	Ser	Ser	60 Asn	Glu	Val	Phe	Pro
65 Gln	Gly	Ala	: Glu	Glu		Met		Tyr	Gln	75 Cys	Glu	Ser	Glu	Asp	80 Glu
Pro	Gln	Ala	 Asp	85 Gly	Ser	Gly	Leu	Thr	90 Thr	Ala	Pro	· Pro	Thr	95 Pro	Arg
Asp	Ser	Leu	100 Gln	Pro	Ser	Ile	Lys	105 Gln	Arg	Leu	Ala	Arg	110 Leu	Gln	Leu
Ser	Pro	115 Asp	Phe	Thr	Phe	Thr	120 Ala	Gly	Leu	Ala		125 Glu	Val	Ala	Ala
Arg	130 Ser	Leu	Ser		Thr	135 Thr	Met		Glu	Gln	140 Thr	Phe	Gly	Asp	Glu
145		Glu			150					155			٠.		160
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Gln	Gly	Asp 35		Thr	Trp		Pro						Gly	Asp	Ile
Cys		Phe	Pro	Pro	Lys	Ile 55	Ala	His	Gly		Туг 60	Lys	Gln	Ser	Ser
Ser 65	_	Ser	Phe		Lys 70		Glu	Ile	Ile	_	Glu	Cys	Asp		Gly 80
Tyr	Ile	Leu	Val	Gly 85			Lys		Ser 90	_		Tyr			Trp
Ser	Ala	Pro	Ala 100	Pro	Gln	Cys	Lys	Ala 105			Arg	Lys	Pro 110	Glu	Leu
Val	Asn	Gly 115	Arg	Leu	Ser	Val	Asp 120	_	Asp		Tyr	Val 125	Glu	Pro	Glu
Asn		Thr	Ile		Cys	_	Ser	Gly	Tyr	Gly	Val 140	Val	Gly	Pro	Gln
Ser 145	Ile	Thr	Cys	Ser	Gly 150	Asn	Arg	Thr	Trp	туr 155	Pro	Glu	Val	Pro	Lys 160
Cys	Glu	Trp	Glu	Thr 165	Pro	Glu	Gly		Glu 170	Gln	Val	Leu	Thr		Lys
Arg	Leu	Met	Gln 180	Cys	Leu	Pro	Asn	Pro 185	Glu	Asp	Val	Lys	Met 190	Ala	Leu
Glu	Val	Tyr 195	Lys	Leu	Ser	Leu	Glu 200	Ile	Glu	Gln	Leu	Glu 205	Leu	Gln	Arg
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Pro Gly Pro Pro Gly Gly Ala Gly Ser Tyr Ser Trp Gly Leu Gly Phe
Arg Arg Ala Gly Gly Ala Gly Leu Lys Ala Ala Leu Val Tyr Gly
Val Val Thr Gln Ser His Trp Gln Arg Trp Gly Leu Ala Val Ala Trp
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Gln Tyr Leu Gly Ile Ala Ser Thr Gly Asn Lys Asp Gly His Glu Gln
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115 120 125
Lys Lys Lys Lys
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Thr Val Asp Cys Glu Asp Tyr Val His Val Val Glu Phe Asn Pro Phe
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Glu Asn Gly Asp Ser Gly Asn Leu Ile Ala Tyr Gly Gly Asn Asn Tyr

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Gly 65	Ile	Gln	туг	Lys	Thr 70	Leu	Arg	Thr	Phe	His 75	His	Gly	Val	Arg	Va]
Asp	Gly.	Ile	Ala	Trp 85	Ser	Pro	Glu	Thr	Arg 90	Leu	Asp	Ser	Leu	Pro 95	Pro
Val	Ile	Lys	Phe 100	Cys	Thr	Ser	Ala	Ala 105	Asp	Met	Lys	Ile	Arg 110	Leu	Phe
Thr	Ser	Asp 115	Leu	Gln	Asp	Lys	Asn 120	Glu	Tyr	Lys	Val	Leu 125	Glu	Gly	His
Thr	Asp 130	Phe	Ile	Asn	Gly	Leu 135	Val	Phe	Asp	Pro	Lys 140	Glu	Gly	Gln	Glu
Ile 145	Ala	Ser	Val	Ser	Asp 150	Asp	His	Thr	Cys	Arg 155	Ile	Trp	Asn	Leu	Glu 160
Gly	Val	Gln	Thr	Ala 165	His	Phe	Val	Leu	His 170	Ser	Pro	Gly	Met	Ser 175	Val
Cys	Trp	His	Pro 180	Glu	Glu	Thr	Phe	Lys 185	Leu	Met	Val	Ala	Glu 190	Lys	Asn
Gly	Thr	11e 195	Arg	Phe	Tyr	Asp	Leu 200	Leu	Ala	Gln	Gln	Ala 205	Ile	Leu	Ser
Leu	Glu 210	Ser	Glu	Gln	Val	Pro 215	Leu	Met	Ser.	Ala	His 220	Trp	Cys	Leu	Lys
Asn 225	Thr	Phe	Lys	Val	Gly 230	Ala	Val	Ala	Gly	Asn 235	Asp	Trp	Leu	Ile	Trp 240
Asp	Ile	Thr	Arg	Ser 245	Ser	Tyr	Pro	Gln ⁻	Asn 250	Lys	Arg	Pro	Val	His 255	Met
Asp	Arg	Ala	Cys 260	Leu	Phe	Arg	Trp	Ser 265	Thr	Ile	Ser	Glu	Asn 270	Leu	Phe
Ala	Thr	Thr 275	Gly.	Tyr	Pro	_	Lys 280	Met	Gln	Ala	Ser	Phe 285	Lys	Phe	Ile

Ile

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Gly	Leu	Ser	Ser	Leu	Ser	Asp	Thr	Met	Ile	Met	Asp	Ser	Ile	Ala	Ala
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Phe	Leu	Val	Leu	Pro	Asn	Arg	Leu	Leu	Val	Pro	Leu	Val	Pro	Asp	Leu
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	50					5 5					60	~			
Tle	Hie	T.Ou	Tan	Ala	ala	Ara	Gl.	T 011	602	50-	T 110		T		**-1
65	1113	Leu	Leu	Ата	70	AIG	GIY	Leu	ser	75	rys	ASP	гуѕ	TYL	80 80
•					, 0	-									
Lys	Gly	Leu	Ile	Glu	Gly	Lys	Ser	Asp	Pro	Tvr	Ala	Leu	Val	Ara	Leu
-	-			85	•	-		•	90	-				95	
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Gly	Thr	Gln	Thr	Phe	Cys	Ser	Arg	Val	Ile	Asp	Glu	Glu	Leu	Asn	Pro
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Gln	Trp		Glu	Thr	Tyr	Glu		Met	Val	His	Glu		Pro	Gly	Gln
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<u></u>	130	Olu	Vai	GIU	vai	135	rap.	Då2	vaħ	PIO	140	гуэ	ASP	vəħ	rne
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145	_	_		_	150	-		•	-	155				·	160
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	_		180					185					190		
Va 1	Leu	G1 =	m×~	Λον	mrn.	G1 **	Wa 1	50-	50-	»	Dro	7	Dro	Dro	C
- CI I	neu	195	тър	Asn	ττħ	GTÀ	200	ser	ser	wrd	Pro	205	PLO	PIO	ser

Ala	Ala 210	Ile	Leu	Val	Val	Tyr 215	Leu	Asp	Arg	Ala	Gln 220	_	Leu	Pro	Leu
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His	Ser	Tyr	Ser 660	His	Ser	Ser	Ser	Ser 665	Leu	Ser	Glu	Glu	Pro 670	Glu	Leu
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Val	Ser	Ile		His 725	Gly	Cys	Arg	Ser	Leu 730	Arg	Gln	Asn	Gly	Arg 735	Asp
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Met Arg Pro Tyr Leu Trp Trp Xaa Glu Val His His Ser Gly Ala Ala

55

65		. val	. Cys	Ala	Asp 70		H1S	Pro) Asp	75		Arg	, Gly	' His	Leu 80
Ala	. Val	. His	Ile	Pro 85		Trp	Leu	. Val	Val 90		Pro	Asp	Trp	95	
Asp	Phe	Pro	Asp 100		Ser	Leu	His	Lys 105		Leu	His	Ser	Asp 110		Gln
Gln	Glu	Arg	Gly	Leu	Pro	Lys	Glu 120		Pro	Pro	Glu	125		Pro	Glu
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Gly 145	Lys	Gln	Cys	Glu	Ala 150	Lys	Glu	Ala	Ala	Glu 155	Gly	Leu	Lys	Ser	Lys 160
Asn								-	-		-				
	-											•			
	0> 1 1> 1														
	2> P 3> H		sapi	ens				-			* .	-			
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Val	Ser	Asp 35	Leu	Ala	Pro	Pro	Arg 40	Lys	Ala	Leu	Phe	Thr 45	Tyr	Pro	Lys
Gly	Ala 50	Gly	Glu	Met	Leu	Glu 55	Asp	Gly	Ser	Glu	Arg 60	Phe	Leu	Cys	Glu
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Lys Pro Leu Asn Trp Leu Leu Phe Asn Tyr Tyr Leu Thr Thr Cys Leu 50 $$ \phantom

Gln Ser Ser Val Asn Lys His Arg His Met Phe Val Lys Gln Val Asp 65 70 75 80

Met Asp His Val Met Lys Ala Lys Ser Ile Arg Glu Phe Asp Lys Arg 85 90 95

Phe Thr Ser Val Met Phe Gly Tyr Gln Thr Ile Asp Asp Tyr Tyr Thr
100 105 110

Asp Ala Ser Pro Ser Pro Arg Leu Lys Ser Val Gly Ile Pro Val Leu 115 120 125

Cys Leu Asn Ser Val Asp Asp Val Phe Ser Pro Ser His Ala Ile Pro 130 135 140

Ile Glu Thr Ala Lys Gln Asn Pro Asn Val Ala Leu Val Leu Thr Ser 150 155 160

Tyr Gly Gly His Ile Gly Phe Leu Glu Gly Ile Trp Pro Arg Gln Ser 165 170 175

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    Gly Leu Gln Val
        35
                                                                         The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
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p	no.	35		FILE	Val	Nan	40		. Det	I FIIE	nsp	45		Dea	GIU
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Phe	Leu	Cys	Ser	Pro	Asp	Asp	Asp	Ser	Arg	, His	Ser	Glu	Arg	Gln	Gln
	50					55					60				
		_		_				_,							
Va 1	Leu	Leu	Glu	Leu	Leu 70	GIn	Ala	GIŸ	GLy	7 Ile 75	Val	Gin	Phe	Glu	80 GIn
0,5					, 0				٠	, ,					80
Ser	Arg	Leu	Ile	Arg	Met	Ala	Glu	Lys	Ala	Glu	Phe	Tyr	Gln	Ile	Ċys
				85					90)				95	
Glu	Phe	Met		Glu	Arg	Glu	His		Tyr	Asp	Lys	Ile		Asp	Cys
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Th-	Wa I	Tla	T	T	T 011	C1 n) co	C1 n	1723	Leu	T 0	Bho	T 110	Dho	T 011
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_	_,		_		_								_	_	_
Leu	Gln 210	ıie	Ser	Pro	Cys		Thr	Glu	GIn	Phe	11e 220	GLu	Leu	Leu	Cys
	210					215					2 Z U				
~1 ~	Dho	N	D	m L	a1 -	**- 1	71.	c1	m b	T 011	C1-	1703	T	C1	c

225					230					235	•				240
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465			Gly		470					475					480
			Glu	485					490					495	
Ser	Ser	Ser	Asn	Lys	Val	Gly	Lys	Leu	Ser	Glu	Asn	Ser	Ser	Glu	Ile

500 505 510 Lys Lys Gly Arg Ile Thr Pro Ser Gln Val Lys Met Ser Pro Ser Tyr 520 515 His Gln Ser Lys Gly Asp Pro Thr Ala Lys Lys Gly Thr Ser Glu Pro 535 540 Val Leu Asp Pro Gln Gln Ile Gln Ala Phe Asp Gln Leu Cys Arg Leu 550 555 Tyr Arg Gly Ser Ser Arg Leu Ala Leu Leu Thr Glu Leu Ser Gln Asn 565 570 Arg Ser Ser Glu Ser Tyr Arg Pro Phe Ser Gly Ser Gln Ser Ala Pro 585 Ala Phe Asn Ser Ile Phe Gln Asn Glu Asn Phe Gln Leu Gln Leu Ile 600 Pro Pro Pro Val Thr Glu Asp 610 615 <210> 1095 <211> 264 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1095 Trp Xaa Ser Thr Thr Ile Trp Lys Ala Gly Pro Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Arg Gly Phe Trp 25 Phe Cys Ser Ser Val Trp Val Ser Ser Arg Leu Leu Lys Met Asn Arg 40 35 Leu Phe Gly Lys Ala Lys Pro Lys Ala Pro Pro Pro Ser Leu Thr Asp

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Ser	. Arg	Leu	Asp	Ala 85	Glu	Leu	Val	Lys	Tyr 90	Lys	Asp	Gln	Ile	Lys 95	Lys
Met.	Arg	Glu	-Gly		Ala	Lys	Asn	Met 105		Lys	Gln	Lys	Ala 110		Arg
Val	Leu	Lys 115		Lys	Arg	Met	Tyr 120		Gln	Gln	Arg	Asp 125		Leu	Ala
Gln	Gln 130		Phe		Met		Gln				Thr 140	Ile		Ser	Leu
Lys 145		Thr		Thr	Thr 150		Asp	Ala		Lys 155	Leu			Lys	Glu 160
Met'	Lys	Lys	Ala	Tyr 165	Lys	Gln	Val	Lys	Ile 170	Asp	Gln	Ile	Glu	Asp 175	
Gln	Asp	Gln	Leu 180	Glu	Asp	Met	Met.	Glu 185	Asp	.Ala	Asn	Glu	Ile 190	Gln	Glu
Ala		Ser .195	Arg	Ser	Tyr	Gly	Thr 200	Pro	Glu	Leu	Asp	Glu 205	Asp	Asp	Leu
	Ala 210	 Glu	Leu	Asp	 Ala	Leu 215	Gly	Asp	Glu	Leu	Leu 220	Ala	Asp	Glu	Asp
Ser 225	Ser.	Tyr	Leu	Asp	Glu 230	Ala	Ala	Ser	Ala	Pro 235	Ala	Ile	Pro	Glu	Gly 240
Val	Pro	Thr	Asp	Thr 245	Lys	Asn	Lys		Gly 250	Val	Leu	Val	Asp	Glu 255	Phe
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Val	Ser	Phe	Glu 20	Pro	Leu	Ala	Gly	Asp 25	Met	Pro	Arg	Gly	Arg 30	Lys	Ser
Arg	Arg	Arg 35	Arg	Asn	Ala	Arg	Ala 40	Ala	Glu	Glu	Asn	Arg 45	Asn	Asn	Arg
Lys	Ile 50	Gln	Ala	Ser	Glu	Ala 55	Ser	Glu	Thr	Pro	Met 60	Ala	Ala	Ser	Val
Val 65	Ala	Ser	Thr	Pro	Glu 70	Asp	Asp	Leu	Ser	Gly 75	Pro	Glu	Glu	Asp	Pro 80
Ser	Thr	Pro	Glu	Glu 85	Ala	Ser	Thr	Thr	Pro 90	Glu	Glu	Ala	Ser	Ser 95	Thr
Ala	Gln	Ala	Gln 100	Lys	Pro	Ser	Val	Pro 105	Arg	Ser	Asn	Phe	Gln 110	Gly	Thr
Lys	Lys	Ser 115	Leu	Leu	Met	Ser	11e 120	Leu	Ala	Leu	Ile	Phe 125	Ile	Met	Gly
	Ser 130	Ala	Lys	Glu	Ala	Leu 135	Val	Trp	Lys	Val	Leu 140	Gly	Lys	Leu	Gly
Met 145	Gln	Pro	Gly	Arg	Gln 150	His	Ser	Ile	Phe	Gly 155	Asp	Pro	Lys	Lys	Ile 160
Val	Thr	Glu	Glu	Phe 165	Val	Arg	Arg	Gly	Туг 170	Leu	Ile	Tyr	Lys	Pro 175	Val
Pro	Arg	Ser	Ser 180	Pro	Val	Glu	Tyr	Glu 185	Phe	Phe	Trp	Gly	Pro 190	Arg	Ala
His	Val	Glu 195	Ser	Ser	Lys	Leu	Lys 200	Val	Met	His	Phe	Val 205	Ala	Arg	Val
Arg	Asn 210	Arg	Cys	Ser	Lys	Asp 215	Trp	Pro	Cys	Asn	Tyr 220	Asp	Trp	Asp	Ser
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Ser Lys Val Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr
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Ile Gly Glu Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val
Val Asn Leu Thr Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg
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Phe Asp Val Gln Leu Lys Asp Leu Glu Lys Trp Gln Asn Asn Leu Leu
                 85
                                   90
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Val	Tyr 50	Pro	Leu	Ala	Gln	val 55	Ile	Ile	Gly	Cys	Ile 60	Lys	Leu	Ile	Pro
Thr 65	Ala	Arg	Phe	Tyr	Pro 70	Leu	Arg	Met	His	Cys 75	Ile	Arg	Ala	Leu	Thr 80
Leu	Leu	Ser	Gly	Ser 85	Ser	Gly,	Ala	Phe	Ile 90	Pro	Val	Leu	Pro	Phe 95	Ile
Leu	Glu	Met	Phe 100	Gln	Gln	Val	Asp	Phe 105	Asn	Arg	Lys	Pro	Gly 110	Arg	Met
Ser	Ser	Lys 115	Pro	Ile	Asn	Phe	Ser 120	Val	Ile	Leu	Lys	Leu 125	Ser	Asn	Val
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Pro	Glu	Leu	Val	Leu 165	Pro	Val	Val	Leu	Gln 170	Leu	Lys	Ser	Phe	Leu 175	Arg
Glu	Cys	Lys	Val 180	Ala	Asn	Tyr	Суѕ	Arg 185	Xaa	Val	Gln	Gln	Leu 190		Gly
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Lys	Leu	Arg	Asp	Arg 245	Glu	Ile	Gln	Leu	Glu 250	Ile	Ser	Gly	Lys	Glu 255	Arg
			Leu 260					265					270		
Arg	Lys	Asp	Glu	Asp	Arg	Lys	Gln	Phe	Lys	Asp	Leu	Phe 285	Asp	Leu	Asn

Ser	Ser 290	Glu	Glu	Asp	Asp	Thr 295		Gly	Phe	Ser	Glu 300		Gly	Ile	Leu
Arq		Leu	Ser	Thr	Ara			Val	Glu	Agn			Glu	Asn	Glu
305					310		. 017	V 4 1	O.L.	315		Glu	GIU	ოახ	320
Glu	Glu	Gly	Glu	Glu 325	Asp	Ser	Ser	Asn	Ser 330	Glu	Gly	Glu	Trp	Ser 335	Trp.
Asp	Gly	Asp	Pro 340	Asp	Ala	Glu	Ala	Gly 345	Leu	Ala	Pro	Gly	Glu 350	Leu	Gln
Gln	Leu.	Ala 355	Gln	Gly	Pro:	Glu	Asp 360	Glu	Leu	Glu.	Asp	Leu 365	Gln	Leu	Ser
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Glu 1		Thr	Leu	Gly 5	Gln	Pro	Gly ·_	Phe	Leu 10:	Gly	Cys	Pro	Arg	Gln 15	Pro
1	-	٠	• .	- 5·		•			10:		• •		٠	15	٠
1		٠	Met	5 His	Tyr	Pro	Thr	Ala	10:	Leu	Phe		Ile	15 Leu	٠
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His	Thr	Ala	Met 20	5 His	Tyr	Pro	Thr	Ala 25	10	Leu	Phe	Leu	Ile 30	15 Leu	Ala
His	-	Ala	Met 20	5 His	Tyr	Pro	Thr	Ala 25	10	Leu	Phe	Leu	Ile 30	15 Leu	Ala
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1 His Asn	Thr Gly Leu	Ala Ala 35	Met 20 Gln	His Ala	Tyr Phe	Pro Arg	Thr Ile 40 Glu	Ala 25 Cys	Leu Ala	Leu Phe	Phe Asn Asp	Leu Ala *45	Ile 30 Gln	15 Leu Arg	Ala Leu
1 His Asn	Thr Gly	Ala Ala 35	Met 20 Gln	His Ala	Tyr Phe	Pro Arg	Thr Ile 40 Glu	Ala 25 Cys	Leu Ala	Leu Phe	Phe Asn	Leu Ala *45	Ile 30 Gln	15 Leu Arg	Ala Leu
His Asn	Thr Gly Leu 50	Ala Ala 35 Ala	Met 20 Gln Lys	His Ala Val	Tyr Phe	Pro Arg Arg 55	Thr Ile 40 Glu	Ala 25 Cys Gln	10 Leu Ala Val	Leu Phe Met	Phe Asn Asp 60	Leu Ala '45 Thr	Ile 30 Gln Leu	15 Leu Arg Val	Ala Leu Arg
His Asn	Thr Gly Leu	Ala Ala 35 Ala	Met 20 Gln Lys	His Ala Val	Tyr Phe	Pro Arg Arg 55	Thr Ile 40 Glu	Ala 25 Cys Gln	10 Leu Ala Val	Leu Phe Met	Phe Asn Asp 60	Leu Ala '45 Thr	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg
His Asn Thr	Thr Gly Leu 50	Ala Ala 35 Ala	Met 20 Gln Lys	His Ala Val	Tyr Phe Ala Asp	Pro Arg Arg 55	Thr Ile 40 Glu	Ala 25 Cys Gln	10 Leu Ala Val	Leu Phe Met	Phe Asn Asp 60	Leu Ala '45 Thr	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg Ser
His Asn Thr	Thr Gly Leu 50	Ala 35 Ala Ala	Met 20 Gln Lys	His Ala Val	Tyr Phe Ala Asp 70	Pro Arg Arg 55	Thr Ile 40 Glu Met	Ala 25 Cys Gln Val	10 Leu Ala Val	Leu Phe Met Gln 75	Phe Asn Asp 60	Leu Ala '45 Thr	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg Ser 80
His Asn Thr	Thr Gly Leu 50	Ala 35 Ala Ala	Met 20 Gln Lys Arg	5 His Ala Val Cys	Tyr Phe Ala Asp 70	Pro Arg Arg 55	Thr Ile 40 Glu Met	Ala 25 Cys Gln Val	10 Leu Ala Val Leu	Leu Phe Met Gln 75	Phe Asn Asp 60	Leu Ala '45 Thr	Ile 30 Gln Leu Val	15 Leu Arg Val	Ala Leu Arg Ser 80
His Asn Thr Ile 65 Ser	Thr Gly Leu 50 Leu Gly	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg	His Ala Val Cys Ile 85	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55	Thr Ile 40 Glu Met	Ala 25 Cys Gln Val	Leu Ala Val Leu Arg 90	Leu Phe Met Gln 75 Glu	Phe Asn Asp 60 Glu Leu	Leu Ala '45 Thr Val	Ile 30 Gln Leu Val	Leu Arg Val Asp Phe 95	Ala Leu Arg Ser 80 Asp
His Asn Thr Ile 65 Ser	Thr Gly Leu 50	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg Ala	5 His Ala Val Cys Ile 85 Tyr	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu	Thr Ile 40 Glu Met Leu	Ala 25 Cys Gln Val Leu Ser	Leu Ala Val Leu Arg 90	Leu Phe Met Gln 75 Glu	Phe Asn Asp 60 Glu Leu	Leu Ala '45 Thr Val	Ile 30 Gln Leu Val Arg	15 Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp
His Asn Thr Ile 65 Ser	Thr Gly Leu 50 Leu Gly	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg	His Ala Val Cys Ile 85	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu	Thr Ile 40 Glu Met	Ala 25 Cys Gln Val	Leu Ala Val Leu Arg 90	Leu Phe Met Gln 75 Glu	Phe Asn Asp 60 Glu Leu	Leu Ala '45 Thr Val	Ile 30 Gln Leu Val	15 Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp
His Asn Thr Ile 65 Ser	Thr Gly Leu 50 Leu Gly	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg Ala Pro 100	His Ala Val Cys Ile 85	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu	Thr Ile 40 Glu Met Leu	Ala 25 Cys Gln Val Leu Ser 105	Leu Ala Val Leu Arg 90 Ser	Leu Phe Met Gln 75 Glu Pro	Phe Asn Asp 60 Glu Leu Gln	Leu Ala '45 Thr Val Asn	Ile 30 Gln Leu Val Arg Gly 110	Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp
His Asn Thr Ile 65 Ser	Thr Gly Leu 50 Leu Gly Ser	Ala 35 Ala Ala Ser	Met 20 Gln Lys Arg Ala Pro 100	His Ala Val Cys Ile 85 Tyr	Tyr Phe Ala Asp 70 Pro	Pro Arg Arg 55 Ile Leu Thr	Thr Ile 40 Glu Met Leu Leu	Ala 25 Cys Gln Val Leu Ser 105	Leu Ala Val Leu Arg 90 Ser	Leu Phe Met Gln 75 Glu Pro	Phe Asn Asp 60 Glu Leu Gln	Leu Ala '45 Thr Val Asn	Ile 30 Gln Leu Val Arg Gly 110	Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp
His Asn Thr Ile 65 Ser Gly	Thr Gly Leu 50 Leu Gly Ser	Ala Ala Ala Ser Gly Met	Met 20 Gln Lys Arg Ala Pro 100 Glu	His Ala Val Cys Ile 85 Tyr	Tyr Phe Ala Asp 70 Pro Ser	Pro Arg 55 Ile Leu Thr	Thr Ile 40 Glu Met Leu Leu Tyr 120	Ala 25 Cys Gln Val Leu Ser 105 Phe	Leu Ala Val Leu Arg 90 Ser	Leu Phe Met Gln 75 Glu Pro	Phe Asn Asp 60 Glu Leu Gln	Leu Ala 45 Thr Val Asn Leu His	Ile 30 Gln Leu Val Arg Gly 110 Lys	Leu Arg Val Asp Phe 95 Arg	Ala Leu Arg Ser 80 Asp Ser

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Leu	Val	Leu	Val	Pro 165	Leu	His	Thr	Thr	Pro 170	Lys	Ala	Val	Glu	Lys 175	Glu
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Phe 225	His	Trp	Val	Ile	Ala 230	Asp	Gly	Glu	Asp	Thr 235	Thr	Val	Arg	Ala	Ser 240
Thr	His	Cys	Thr	Tyr 245	Asp	Arg	Val	Val	Leu 250	His	Gly	Glu	Arg	Cys 255	Arg
Ser	Leu	Leu	His 260	Thr	Ala	Ala	Ala	Phe 265	Asp	Phe	Pro	Thr	Ser 270	Phe	Gln
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Val	Glu 290	Leu	Lys	Leu	Ser	Gln 295	Ala	His	Ser	Val	Gln 300	Pro	Leu	Ser	Leu
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       35 40
Phe Lys Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ile
    50 55 60
Leu Ala Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu
                                75
Leu Ser Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys
Val Leu Arg Lys Ile Glu Lys Pro Phe Gly Leu Tyr Pro Asn Phe Leu
     100 105 110
Ser Pro Val Ser Gly Asn Trp Val Gln His His Val Ser Val Gly Gly
   115 120 125
Leu Gly Asp Ser Phe Tyr Glu Tyr Leu Ile Lys Ser Trp Leu Met Ser
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Gly
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160Met
150Lys
150Asp
155Met
155Tyr
155Glu
155Ala
155Leu
160Ala
155Leu
160Ala
240Xaa
165Arg
165Arg
165Ala
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Glu Ala Ala Val Leu Phe Arg Gln Met Ala Thr Ala Leu Ala His Cys 35 40 45

His Gln His Gly Leu Val Leu Arg Asp Leu Lys Leu Cys Arg Phe Val 50 60

Phe Ala Asp Arg Glu Arg Lys Lys Leu Val Leu Glu Asn Leu Glu Asp 65 70 75 80

Ser Cys Val Leu Thr Gly Pro Asp Asp Ser Leu Trp Asp Lys His Ala 85 90 \cdot 95

Cys Pro Ala Tyr Val Gly Pro Glu Ile Leu Ser Ser Arg Ala Ser Tyr 100 105 110

Ser	Gly	Lys 115		a Ala	Asp	val	120		Leu	ı Gly	Val	. Ala 125		Phe	Thr
Met	Leu 130		Gly	His	Туг	Pro		Gln	Asp	Ser	Glu 140		Val	Leu	Leu
Phe		Lys	Ile	e Arg	Arg 150	Gly	Ala	Tyr	Ala	Leu 155		Ala	Gly	Leu	Ser 160
Ala	Pro	Ala	Arg	Cys 165		Val	Arg	Cys	Leu 170		Arg	Arg	Glu	Pro 175	Ala
Glu	Arg	Leu	Thr 180		Thr	Gly	Ile	Leu 185	Leu	His	Pro	Trp	Leu 190	Arg	Gln
Asp	Pro	Met 195		Leu	Ala	Pro	Thr 200	Arg	Ser	His		•Trp •205		Ala	Ala
Gln	Val 210	Val	Pro	Asp	Gly	Leu 215	Gly	Leu	Asp	Glu	Ala 220	Arg	Glu	Glu	Glu
Gly 225	Asp	Arg	Glu	Val	Val 230	Leu	Tyr	GГу	-,* ~	· .			. 1.2 -	* *.	
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Leu	Thr	35	Tyr	Leu	Lys	Lys	Thr 40	Leu	Asp	Pro	Asp	Pro 45		Ile	Arg
Arg	Pro 50	Ala	Ġlu	Lys	Phe	Leu 55	Glu	Ser	Val	Glu	Gly 60	Asn	Gln	Asn.	Tyr
Pro 65	Leu	Leu	Leu 	Leu	Thr 70	Leu	Leu	Glu	Lys	Ser .75	Gln	Asp	Asn	Val	Ile 80
Lys	Val	Cys	Ala	Ser 85	Val	Thr	Phe	Lys	Asn 90	Tyr	Ile	Lys	Arg	Asn 95	Trp
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Ala	Ile	Lys 115	Ala	Asn	Ile	Val	His 120	Leu	Met	Leu	Ser	Ser 125	Pro	Glu	Gln
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Phe 145	Pro	Gln	Lys	Trp	Pro 150	-	Leu	Leu	Thr	Glu 155	Met	Val	Asn	Arg	Phe 160
Gln	Ser	Gly	Asp	Phe 165	His	Val	Ile	Asn	Gly 170	Val	Leu	Arg	Thr	Ala 175	His
Ser	Leu	Phe	Lys 180	Arg	Tyr	Arg	His	Glu 185	Phe	Lys	Ser	Asn	Glu 190	Leu	Trp
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Leu	Phe 210	Lys	Ala	Thr	Ile	Glu 215	Leu	Cys	Ser	Thr	His 220	Ala	Asn	Asp	Ala
Ser 225	Ala	Leu	Arg	Ile	Leu 230	Phe	Ser	Ser	Leu	Ile 235	Leu	Ile	Ser	Lys	Leu 240
Phe	Tyr	Ser	Leu	Asn 245	Phe	Gln	Asp	Leu	Pro 250	Glu	Phe	Phe	Glu	Asp 255	Asn
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Lys	Leu	Leu 275	Gln	Thr	Asp	Asp	Glu 280	Gļu	Glu	Ala	Gly	Leu 285	Leu	Glu	Leu
Leu	Lys 290	Ser	Gln	Ile	Cys	Asp 295	Asn	Ala	Ala	Leu	Tyr 300	Ala	Gln	Lys	туr
Asp 305	Glu	Glu	Phe	Gln	Arg 310	Tyr	Leu	Pro	Arg	Phe 315	Val	Thr	Ála	Ile	Trp 320
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                                                                40
                                                                                                               45
                   Gly Ala Ala Leu Pro Asp Gln Ser Phe Leu Trp Asn Val Phe Gln Arg
           50 55 60
                        and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Val Asp Lys Asp Arg Ser Gly Val Ile Ser Asp Thr Glu Leu Gln Gln
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Ala Leu Ser Asn Gly Thr Trp Thr Pro Phe Asn Pro Val Thr Val Arg 95

Ser Ile Ile Ser Met Phe Asp Arg Glu Asn Lys Ala Gly Val Asn Phe 110

Ser Glu Phe Thr Gly Val Trp Lys Tyr Ile Thr Asp Trp Gln Asn Val 125

Phe Arg Thr Tyr Asp Arg Asp Asn Ser Gly Met Ile Asp Lys Asn Glu 130

Leu Lys Gln Ala Leu Xaa Val Ser Ala Thr Gly Ser Leu Thr Ser Ser 160

Thr Thr Ser Ser Phe Glu Xaa Leu Thr Gly Xaa Gly Arg Gly Xaa Ser 175

<210> 1105 <211> 241 <212> PRT <213> Homo sapiens

Xaa Ser Thr Xaa

180

<400> 1105

Thr Thr Arg Phe Pro Ser Gly Gln Pro Leu Lys Pro Arg Pro Thr Leu

1 5 10 15

Thr Ala Ala Gly Pro Arg Pro Gly Leu Leu Cys Phe Thr Ile Tyr Ile
20 25 30

Met Asn Pro Ser Met Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile 35 40 45

Lys Asn Ser Ser Val Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser 50 55 60

Ala Ser Gly Ser Leu Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu
65 70 75 80

Ser Lys Arg Lys His Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser 85 90 95

Pro Gly Val Ile Val Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly
100 105 110

Val Thr Gln Glu Ser Phe Asp Leu Met Ile Lys Glu Asn Pro Ser Ser

		115					120	ı				125	ı		
Gln	130		Lys	Glu	Val	Ala 135		Lys	Arg	Arg	Lys 140		Leu	Tyr	Glu
145		Lys	Glu	Asn	Glu 150		Leu	His	Lys	Glu 155		Glu	Gln	Lys	Asp 160
		Ile	Ala	Arg		Lys	Lys	Glu	Asn 170		Glu			175	Val
Ala	Glu	His	Val 180	Gln	Tyr	Met	Ala	Glu 185		Ile	Glu	Arg	-	Asn	Gly
21.5			_					_	• • •	-	:			*	
GIU.	Pro	195	Asp	Asn	Phe	Glu	200	Leu	Asp	Asn	Gln	Glu 205	Phe	Asp	Ser
Glu	Glu 210		Thr	Val	Glu	Asp 215	Ser	Leu	Val	Glu	Asp 220	Ser	Glu	Ile	Gly
. i	0			~ 3		••••		· · .	_		.*			_	
225		АТА	Glu	СТУ.	230		ser	ser	ser	235		Ala	Lys	Pro	Cys 240
Ile		• .*				-	:	•	233		- * .	* - * ‡	A	•	
•			-				•								
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	2> P 3> H		sapi	ens											
<40	0> 1	106				•									
Phe 1		Thr	Glu	Phe 5	Ile	Thr	Ile	Trp	Asp 10	Val	Arg	Gln	Cys	ser 15	Asn
Lys	His	Cys	Gln 20		Val	Asn	Phe	Leu 25		Ser	Val	Gly	His 30	Ile	Ala
Lys	Asn	Leu 35	Leu	Lys	His	Asn	Cys 40	Ile	Phe	Cys	Phe	Arg 45	Ala	Leu	Leu
Met	Phe 50	Cys	Arg	Ser	Asñ	Val 55	Суз	Ile	Phe	Leu	Leu 60	Asn	Lys	Leu	Val
Leu 65	Ile	Leu	Glu	Leu	Ser 70	Asp	Asp	Phe		Leu 75	Glu	Arg	Thr	Thr	Gln 80
	Arg	Gln	Cys	Lys	Ser	Lys	Ser			•					•

<210> 1107 <211> 124

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<213> Homo sapiens
<400> 1107
Leu Val Val Leu Lys Arg Arg Pro Glu Lys Ser Gln Gly His Glu His
                                     10
Arg Ala Met Pro Phe Leu Asp Ile Gln Lys Arg Phe Gly Leu Asn Ile
                                 25
Asp Arg Trp Leu Thr Ile Gln Ser Gly Glu Gln Pro Tyr Lys Met Ala
Gly Arg Cys His Ala Phe Glu Lys Glu Trp Ile Glu Cys Ala His Gly
Ile Gly Tyr Thr Arg Ala Glu Lys Glu Cys Lys Ile Glu Tyr Asp Asp
                                         75
Phe Val Glu Cys Leu Leu Arg Gln Lys Thr Met Arg Arg Ala Gly Thr
                 85
                                     90
Ile Arg Lys Gln Arg Asp Lys Leu Ile Lys Glu Gly Lys Tyr Thr Pro
                                105
Pro Pro His His Ile Gly Lys Gly Glu Pro Arg Pro
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<400> 1108
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His 1		Leu	Cys	Cys 5		Ala	Gln	Arg	Arg 10		Gln	Thr	Pro	Pro 15	
Ala	Arg	Gly	Leu 20				Gln 						Ala 30	_	Xaa
-		35			:	÷	40	•	• • •	•	٠	45		•	•
	50	• •	Leu	-		. 55		. * :			60		-		1.:
	Trp		Glu	Phe	11e 70			Pro					Leu		
Asp	Thr	Lys	Glu	Gln .85	Arg	Ile	Leu 	Asn	His 90	Val	Leu ::	Gln	His	Ala 95	Glu
Pro			Ala 100	Gl'n	Ser	Val	Leu				Asp				Glu
Gln	Lys	Glu 115	Trp	Ala	Met	Asn	Val 120	Gly	Asp	Lys	Lys	Gly 125	Lys	Ile	Val
Asp	Ala 130	Val	Ile	Gln	Glu	His 135	Gln	Pro	Ser		Leu 140	Leu	Glu	Leu	Gly
Ala 145			Gly				Val						Leu		Pro 1.60
Gly	Ala	Arg	Leu				Glu 		Asn 170		Asp		Ala		Ile :
Thr	Gln	Arg	Met 18.0		Asp						Asp			Thr	Leu
Val	Val	Gly 195	Ala ·		Gln		Ile 200	İle	Pro	Gln	Leu		Lys	Lys	Tyr
Asp	Val 210	Asp	Thr	Leu		Met 215		Phe		Asp	His 220	Trp	Lys	Asp	Arg
Tyr 225			Asp									Leu	Leu		Lys 240
			Leu 								Pro		Ala	Pro 255	Asp
Phe	Leu	Ala	His 260	Val	Arg	Gly	Ser	Ser 265	Cys	Phe		Cys	Thr 270	His	Tyr

Gln Ser Phe Leu Glu Tyr Arg Glu Val Val Asp Gly Leu Glu Lys Ala 275 280 285

Ile Tyr Lys Gly Pro Gly Ser Glu Ala Gly Pro 290 295

<210> 1109

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<220>

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1109

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Arg Leu Arg Asp Leu 1 5 10 15

Leu Thr Arg Arg Leu Thr Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser 20 25 30

Leu Arg Leu Thr Gly Ser Ser Ala Gln Glu Xaa Ala Ser Gly Val Ala
35 40 45

Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val Thr Ser 50 55 60

Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro Asn Lys Arg 65 70 75 80

Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val Glu Cys Phe Asn 85 90 95

Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly Ala 100 105 110

Gly Lys Met Phe Thr Ala Gly Ile Asp Leu Met Asp Met Ala Ser Asp 115 120 125

Ile Leu Gln Pro Lys Gly Asp Asp Val Ala Arg Ile Ser Trp Tyr Leu 130 140

Arg Asp Ile Ile Thr Arg Tyr Gln Glu Thr Phe Asn Val Ile Glu Arg 145 150 155 160

Cys Pro Lys Pro Val Ile Ala Ala Val His Gly Gly Cys Ile Gly Gly 165 170 175

GIŽ	va:	L Asp	180		l Thr	Ala	a Cys	185		e Aro	ј Туј	c Cys	190		n Ası
Ala	Phe	Phe 195		va]	Lys	Glu	val 200		Va]	Gly	/ Lei	1 Ala 205		a Asp	o Val
Gly	Thr 210	Leu	Gln	Arg	, Leu	215		Val	. Ile	e Gly	220		n Ser	Leu	ı Val
Asn 225		Leu :	Ala	Phe	Thr 230		Arg	Lys	Met	Met 235		Asp	Glu	Ala	240
Gly	Ser	Gly			Ser					Asp 					
Asp	Ala	Ala	Leu 260		Leu	Ala	Ala	Glu 265		Ser	Ser	Lys	Ser 270		Val
Ala	_Cys	Arg 275		Pro	Arg	Şer	Thr 280	Cys	_. Сув	Ile	.Pro	Ala 285		Ile	- Arg
Trp	Pro 290	Arg	Ala	Ser	Thr	Thr 295		Arg	Pro	_	300				
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	0> 1														
	1> 2														
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<40	0> 1	110							٠.						
Arg 1	Ser	Cys	Ala	Leu 5	Val	Cys	Lys	His	Trp	Tyr	Arg	Cys	Leu	His 15	Gly
Asp	Glu	Asn	Ser 20	Glu	Val	Trp	Arg	Ser 25	Leu	Cys	Ala	Arg	Ser 30	Leu	Ala
		Ala 35					40					Pro 45	Ser	Tyr	Lys
Ala	Lys 50	Ile	Arg	Ala	Phe	Gln 55	His	Ala	Phe	Ser	Thr 60		Asp		Ser
Arg 65	Asn	Val	Tyr	Ile	Lys 70	Lys	Asn		Phe	Thr 75	Leu		Arg	Asn	Pro 80
lle	Ala	Gln	Ser	Thr 85	Asp	Gly	Ala	Arg	Thr 90		Ile		Phe	Ser 95	Glu

```
Gly Arg His Ala Trp Glu Val Trp Trp Glu Gly Pro Leu Gly Thr Val
            100
Ala Val Ile Gly Ile Ala Thr Lys Arg Ala Pro Met Gln Cys Gln Gly
                            120
Tyr Val Ala Leu Leu Gly Ser Asp Asp Gln Ser Trp Gly Trp Asn Leu
                        135
Val Asp Asn Asn Leu Leu His Asn Gly Glu Val Asn Gly Ser Phe Pro
Gln Cys Asn Asn Ala Pro Lys Tyr Gln Ile Gly Glu Arg Ile Arg Val
               165
                                    170
Ile Leu Asp Met Glu Asp Lys Thr Leu Ala Phe Glu Arg Gly Tyr Glu
            180
                            185
Phe Leu Gly Val Ala Phe Arg Gly Leu Pro Lys Val Cys Leu Tyr Pro
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Ala Val Ser Ala Val Tyr Gly Asn Thr Glu Val Thr Leu Val Tyr Leu
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Gly Lys Pro Leu Asp Gly
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Pro Xaa Leu Thr Lys Gly Asn Lys Ser Trp Xaa Ser Thr Ala Val Xaa
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Thr	Ala	a Lei	20		Va 1	. Asp	Pro	Pro 25		Cys	Arg	Asn	Ser 30		Pro
Gln	Lys	35 35		Lys	Asn	Thr	Val 40		Cys	Ile	Asp	Ile 45	Cys	Thr	Val
	Va] ∙ 5(Val							Phe		.		:	
<21	0> 1 1> 4	25				:			-	:	÷				<u>.</u>
			sapi		· · ·				7		ۇيد ^ى :	1 V.			
<22 <22	2> (ITE. 3)		s any	, of	the	nati	ural	ly o	ccuri	ring	L-an	nino	acio	is
<22	0>					- :	:				٠.			•	•
-	1> S			• -					٠		· .:	ī	. 1. 7.	1. 7	• • •
<22:	-		qual:	s any	of.	the	nati	ural	lv o	: ccuri	ina	L-an	nino	acio	is
•	-														
<22°		TME													
		228)												•	•
		•	qual	s any	of	the	nati	ıral	Ly o	ccurr	ing	L-an	nino	acid	ls
<400)> 1	112			•										
	Ile	Xaa	Gly		Tyr	Phe	Ala	Val	Leu 10	Ala	Pro	Gln	Glu	Leu 15	Leu
Ile	Tyr	Glu	Met 20	Ala	Glu 	Asn	Gly	Lys 25	Asn	Cys	Asp	Gln	Arg 30	Arg	Val
Ala	Met	Asn 35	Lys ·	Glu	His	His	Asn 40	Gly	Asn	Phe	Thr	Asp 45	Pro	Ser	Ser
										Glu					Val
										Tyr .75.					
Leu	Val									Leu					

Ile	Val	Val	Ser 100	Phe	Leu	Leu	Leu	Leu 105	Ala	Val	Leu	Ile	Ala 110	Thr	Tyr
Tyr	Val	Glu 115	Gly	Val	His	Gln	Gln 120	Туr	Val	Gln	Arg	Ile 125	Glu	Lys	Gln
Phe	Leu 130	Leu	Tyr	Ala	Tyr	Trp 135	Ile	Gly	Leu	Gly	Ile 140	Leu	Ser	Ser	Val
Gly 145	Leu	Gly	Thr	Gly	Leu 150	His	Thr	Phe	Leu	Leu 155	Tyr	Leu	Gly	Pro	His 160
Ile	Ala	Ser	Val	Thr 165	Leu	Ala	Ala	Tyr	Glu 170	Cys	Asn	Ser	Val	Asn 175	Phe
Pro	Glu	Pro	Pro 180	Tyr	Pro	Asp	Gln	Ile 185	Ile	Cys	Pro	.Asp	Glu 190	Glu	Gly
Thr	Glu	Gly 195	Thr	Ile	Ser	Leu	Trp 200	Ser	Ile	Ile	Ser	Lys 205	Val	Arg	Ile
Glu	Ala 210	Cys	Met	Trp	Gly	11e 215	Gly	Thr	Ala	Ile	Gly 220	Glu	Leu	Pro	Pro
Tyr 225	Phe	Met	Xaa	Arg	Ala 230	Ala	Arg	Leu	Ser	Gly 235	Ala	Glu	Pro	_	Asp 240
Glu	Glu	Туr	Gln	Glu 245	Phe	Glu	Glu	Met	Leu 250	Glu	His	Ala	Glu		Ala :
			260				Lys	265				_	270		
Lys	Val	Gly 275	Phe	Phe	Gly	Ile	Leu 280	Ala	Cys	Ala	Ser	Ile 285	Pro	Asn	Pro
Leu	Phe 290	Asp	Leu	Ala	Gly	Ile 295	Thr	Cys	Gly	His		Leu	Val	Pro	Phe
305			•	-	310		Leu		_	315				_	320
His	Ile	Gln	Lys	11e 325	Phe	Val	Ile	Ile	Thr 330	Phe	Ser	Lys	His	Ile 335	Val
			340			•	Gly	345					350		
Leu	Gln	Lys 355	Pro	Phe	Gln	Glu	Tyr 360	Leu	Glu	Ala	Gln	Arg 365	Gln	Lys	Leu

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser 370 375 380

Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu 385 390 395 400

Ser Ile Ile Asn Ser Met Ala Gln Ser Tyr Ala Lys Arg Ile Gln Gln 405 410 415

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<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113

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Phe Gly Thr Ser Ser Ser Thr Pro Ala Arg Pro Ser Ser His His Ser 35 40 45

Ala Cys Phe Leu Gly Pro Glu Ile Met Pro Leu Gly Leu Leu Trp Leu 50 55 60

Gly Leu Ala Leu Leu Gly Ala Leu His Ala Gln Ala Gln Asp Ser Thr 65 70 75 80

Ser Asp Leu Ile Pro Ala Pro Pro Leu Ser Lys Val Pro Leu Gln Gln 85 90 95

Asn Phe Gln Asp Asn Gln Phe Gln Gly Lys Trp Tyr Val Val Gly Leu 100 105 110

Ala Gly Asn Ala Ile Leu Arg Glu Asp Lys Asp Pro Gln Lys Met Tyr 115 120 125

Ala Thr Ile Tyr Glu Leu Lys Glu Asp Lys Ser Tyr Asn Val Thr Ser

	130					135					140				
Val 145	Leu	Phe	Arg	Lys	Lys 150	Lys	Cys	Asp	Tyr	Trp 155	Ile	Arg	Thr	Phe	Val 160
Pro	Gly	Cys	Gln	Pro 165	Gly	Glu	Phe	Thr	Leu 170	Gly	Asn	Ile	Lys	Ser 175	Tyr
Pro	Gly	Leu	Thr 180	Ser	Tyr	Leu	Val	Arg 185	Val	Val	Ser	Thr	Asn 190	Tyr	Asn
Gln	His	Ala 195	Met	Val	Phe	Phe	Lys 200	Lys	Val	Ser	Gln	. Asn 205	Arg	Glu	Tyr
Phe	Lys 210	Ile	Thr	Leu	Tyr	Gly 215	Arg	Thr	Lys	Glu	Leu 220		Ser	Glu	Leu
Lys 225	Glu	Asn	Phe	Ile	Arg 230		Ser	Lys	Ser	Leu 235	Gly	Leu	Pro	Glu	Asn 240
His	Ile	Val	Phe	Pro 245	Val	Pro	Ile	Asp	Gln 250	Cys	Ile	Asp	Gly		
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Met Thr Val Glu Gly Pro Pro Pro Lys Asp Thr Gly Ile Ala Arg Val

Pro	Leu	Ala 115	Gly	Ala	Ala	Gly	Gly 120	Pro	Gly		_	Arg 125	Ala	Ala	Gly
Arg				Ala	Gly		Pro	Met	Pro	Gln		Pro	Ala	Gly	Lei
	130		·			135					140				
Δla	G1.	Dro	17.3	7 ~~	c1	*** 1	c1	C1	D=0	C	C1 =	C1 -	*** 1	14 - 4	m L .
145			vai									Gln			
			•		1.50	•				133					100
Pro	Gln		Arg	Glv	Thr	Val	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Thr	Ala
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Ser	Ile	Ala	Gly	Ala	Pro	Thr	Gln	Tyr	Pro	Pro	Gly	Arg	Gly	Gly	Pro
		٠.	180	:	. :-			185			· · ·		190	** :	
٠.										-					
Pro	Pro	Pro	Met	Gly	Arg	Gly	Ala	Pro	Pro	Pro	Gly	Met	Met	Gly	Pro
· ·	•	195:	-··		•		200	:	5 .	•		205			
D=0	n	C1	W	3 mm	D	D		G3	D	D		~ 1	-1 -		
PIO	210	GIY	met.	Arg	PIO	215	met	GIĀ	Pro	PIO	220	Gly	TTE	Pro	Pro
	210					213					220				
Gly	Ara	Glv	Thr	Pro	Met	Glv	Met	Pro	Pro	Pro	Glv	Met	Ara	Pro	Pro
225					230	2				235	1		5		240
	٠.	,							,						
Pro	Pro	Gly	Met	Arg	Gly	Leu	Leu								
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<212															
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<220	>	-													
<221															
							-								
<223	> Xa	a eq	uals	any	of	the	natu	rall	у ос	curr	ing	L-am	ino	acid	s
<220															
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1				5					10					15	
•															
Leu	Glu	Leu		Xaa	Pro	Pro	Gly	_	Arg	Asn	Ser	Ala	Arg	Ala	Xaa
			20					25					30		
		•													
Pro	Pro		Gly	Ser	Ser	Pro		Gly	Arg	Arg	Phe	_	Val	Leu	Sei
		35					40					45			
_ `	_		_	_	_						_ •	_	_	_	_
ser		Arg	Arg	Ser	Pro		Phe	Glu	Glu	Lys		ser	ser	Pro	Ser
	50					. 55					60				
C1	T			01	61	~1	, •	S	- 1-	01		61	61	~ 1	•
	гуѕ	met	GIA	GIÀ		GIU	гÀг	Pro	TIE	Gly	Ala	GIY	GIU	GIU	
65					70					75					80
Cl n	Tvc	Glu	Gl v	G117	Tue	Ive	Tvc	۸۵۶	T 1/6	Glu	Cl v	502	Cl.	λcn	C1.
GIII	Буз	Giu	Gry	85	Буз	пåэ	Буз	ASII	90 90	Giu	Gry	261	GLY	95	GLY
				0,5	•				90					,,,	
Glv	Ara	Ala	Glu	ī.eu	Asn	Pro	Tro	Pro	Glu	Tyr	Tle	ጥህዮ	Thr	Ara	T.e.
O-J	•••		100	2Cu	7.0	110		105	014	- / -		- 7 -	110	9	200
Glu	Met	Tvr	Ásn	Ile	Leu	Lvs	Ala	Glu	His	Asp	Ser	Ile	Leu	Ala	Glu
		115				2 -	120					125			
Lys	Ala	Glu	Lys	Asp	Ser	Lys	Pro	Ile	Lys	Val	Thr	Leu	Pro	Asp	Gly
	130		_	_		135			-		140			_	Ī
Lys	Gln	Val	Asp	Ala	Glu	Ser	Trp	Lys	Thr	Thr	Pro	Tyr	Gln	Ile	Ala
145					150					155					160
Cys	Gly	Ile	Ser	Gln	Gly	Leu	Ala	Asp	Asn	Thr	Val	Ile	Ala	Lys	Val
				165					170					175	
Asn	Asn	Val	Val	Trp	Asp	Leu	Asp	Arg	Pro	Leu	Glu	Glu	Asp	Cys	Thr
			180					185					190		
Leu	Glu		Leu	Lys	Phe	Glu		Glu	Glu	Ala	Gln		Val	Tyr	Trp
		195					200					205			
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HIS		ser	Ala	HIS	TIE		GTÅ	GIU	АТА	Met		Arg	val	Tyr	GLY
	210					215					220				

Gly 225		Leu	Cys	Tyr	Gly 230		Pro	Ile	Glu	235		Phe	Tyr	Tyr	Asp 240
Met	Tyr	Leu	Glu	Glu 245	Gly	Gly	Val	Ser	Ser 250			Phe	Ser	Ser 255	Leu
Glu	Ala	Leu	260			Ile	Ile	Lys 265	Glu	Lys	Gln	Ala	Phe 270	Glu	Arg
Leu		275	Lys		Glu		280		Ala	Met		Lys 285		Asn	Lys
		Cys	Arg	Ile	Leu	Asn 295	Glu			Asn	Thr 300	Pro		Thr	Thr
Val 305		Arg			Pro 310		Ile	Asp	Leu	-	Arg	Gly	Pro	His	Val 320
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Thr	Tyr	Trp	Glu 340		Lys			Met 345				Gln	Arg 350	Ile	Tyr
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Phe 625	Asn	Leu	Thr	Tyr	Val 630	Ser	His	Asp	Gly	Asp 635	Asp	Lys	Lys	Arg	Pro 640
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Ile	Leu	Thr	Glu 660	Asn	Tyr	Gly	Gly	Lys 665	Trp	Pro	Phe	Trp	Leu 670	Ser	Pro
Arg	Gln	Val 675	Met	Val	Val	Pro	Val 680	Gly	Pro	Thr	Cys	Asp 685	Glu	туr	Ala
Gln	Lys 690	Val	Arg	Gln	Gln	Phe 695	His	Asp	Ala	Lys	Phe 700	Met	Ala	Asp	Ile
Asp 705	Leu	Asp	Pro	Gly	Cys 710	Thr	Leu	Asn	Lys	Lys 715	Ile	Arg	Asn	Ala	Gln 720
Leu	Ala	Gln	Туг	Asn 725	Phe	Ile	Leu	Val	Val 730	Gly	Glu	Lys	Glu	Lys 735	Ile
Ser	Gly	Thr	Val 740	Asn	Ile	Arg	Thr	Arg 745	Asp	Asn	Lys	Val	His 750	Gly	Glu
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Arg Ser Lys Gln Ala Glu Glu Glu Phe

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775
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                                                                                                                                                                25
     Trp Ala Met Val Ser Xaa Met Glu Ile-Asp Gln Pro Ala Gly Thr Gly
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    Thr Leu Ser Arg Thr Asn Pro Pro Thr Gln Lys Pro Pro Ser Pro Pro
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                                                                                                                     55
    Met Ser Gly Arg Gly Thr Leu Gly Arg Asn Thr Pro Tyr Lys Thr Leu
                                                                                                    70
    Glu Pro Val Lys Pro Pro Thr Val Pro Asn Asp Tyr Met Thr Ser Pro
                                                                                    85
                                                                                                                                                                                  90 -
   Ala Arg Leu Gly Ser Gln His Ser Pro Gly Arg Thr Ala Ser Leu Asn
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Gln	Arg	Pro	Arg	Thr	His	Ser	Gly 120	Ser	Ser	Gly	Gly	Ser 125	_	Ser	Arg
Glu	Asn 130	Ser	Gly	Ser	Ser	Ser 135	Ile	Gly	Ile	Pro	Ile 140		Val	Pro	Thr
Pro 145		Pro	Pro	Thr	Ile 150	Gly	Pro	Ala	Ala	Pro 155		Ser	Ala	Pro	Gly 160
Ser	Gln	Tyr	Gly	Thr 165	Met	Thr	Arg	Gln	Ile 170		Arg	His	Asn	Ser 175	
Thr	Ser	Ser	Thr 180	Ser	Ser	Gly	Gly	Туг 185	Arg	Arg	Thr	Pro	Ser 190		Thr
		195					His 200					205		-	
Gln	Asn 210	Ser	Ile	Ser	Île	Ala 215	Pro	Pro	Pro	Pro	Pro 220	Met	Pro	Gln	Leu
Thr 225		Gln	Ile	Pro	Leu 230	Thr	Gly	Phe	Val	Ala 235	Arg	Val	Gln	Glu	Asn 240
Ile	Ala	Asp	Ser	Pro 245	Thr	Pro	Pro	Pro	Pro 250	Pro	Pro	Pro	Asp	Asp 255	Ile
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Tyr	Glu	Asp 275	Glu	Glu	Ala	Ala	Val 280	Val	Gln	Tyr	Asn	Asp 285	Pro	Tyr	Ala
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305					310		Asp			315		٠			320
				325			Ile		330					335	
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 Trp Lys Val Thr Lys Pro Ala Pro Cys Pro Arg Pro Arg Arg Val Glu
 Pro Val Cys Ser Gly Leu Gln Ala Gln Ile Leu His Cys Tyr Arg Asp
Arg Pro His Glu Val Leu Leu Cys Ser Asp Leu Val Lys Ala Tyr Gln
   65
                                                  70 -
Arg Cys Val Ser Ala Xaa His Lys Gly
                                         85
                               the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o
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Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg Lys Asn Ile Val
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                                                                                 25
Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala Glu Asp Lys Glu Asn
                  40 45
Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys Asn Leu Lys Leu Gly Ile
 55 60 --- 60 ---
His Glu Asp Ser Thr Asn Arg Arg Leu Ser Glu Leu Leu Arg Tyr
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65					70					75					80
His	Thr	Ser		Ser 85	Gly			Met	Thr			Ser		_	Val
Ser	Arg	Met	Lys 100		Thr	Gln	Lys	Ser 105		Tyr	туr	Ile	Thr 110	Gly	Glu
Ser		Glu 115	Gln	Val	Ala	Asn	Ser 120	Ala	Phe	Val	GI u	Arg 125		Arg	Lys
Arg	Gly 130		Glu	Val	Val	Туг 135		Thr	Glu	Pro	Ile 140	Asp	Glu	Tyr	Суз
Val 145	Gln	Gln	Leu	Lys	Glü 150	Phe	Asp	Gly		Ser 155	Leu	Val	Ser	Val	Thr 160
Ĺýs	Glu	Gly	Leu	Glu 165	Ĺeu	Pro	Glu	Asp	Glu 170	Glü	Gľú	Lys	Lys	Lys 175	
Glü	Glu	Ser	Lys 180		Lys	Phe		Asn 185	Leu	Cys	Lys	Leu	Met 190	Lys	Glu
Ile	Leu	Asp 195	Lys	Lys	Val	Glu	Lys 200	Val	Thr	Ile	Ser	Asn 205	Arg	Leú	Val
Ser	Ser 210	Pro	Суз	Суз	Ile	Val 215	Thr	Ser	Thr	Tyr.	Gly 220	Trp	Thr	Ala	Asn
Met 225	Glu	Arg	Ile	Met ⁻	Lys 230	Alã	Gln	Ala	Leu	Arg 235	Asp	Asn	Ser	Thr	Met 240
		٠.		245	Lys		•		250					255	
	~		260		Arg			265					270	_	
		275			VaI	;	280	,		:.		285			
•	290				Glu	295					300			. ·	
305					Gly 310					315					320
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185

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- 48 A

Glu	Pro	Ser 195		Tyr	Thr	Cys	Thr 200		Cys	Lys	Gln	Pro 205		Thr	Ser
Ala	Trp 210		Leu	Leu	Gln	His 215		Gln	Asn	Thr	His 220		Leu	Arg	Ile
Туг 225		Glu		Glu	230					235		-		_	Ile 240
Pro	Ser	Gly		Gly 245	Ala	Glu	Cys	Pro	Ser 250	Gln	Pro	Pro	Leu	His 255	_
Ile	His	Ile	Ala 260	Asp					Asn	Leu				Pro	
٠	- •			`.											
Ser		275		Glu			280					285			
His		Pro		Val		- '-	` =	· #	\$ · i;	•	3.3.2	:-		-	
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Arg	Ala 130		a Leu	ı Ile	e Ala	135		. Thr	: Asr	ı Val	140) Let	ı Let	ı Asp
Ala 145		Туг	Gly	, Lys	150		Thr	Asp	Glu	155		Glr	n Ala	va]	l Arg 160
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Leu	Val 50	Arg	Val	Ala	Ala	Val 55	Ser	Ser	Asp	Ser	Cys 60	Val	Val	Pro	Met
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Lys Asn Phe Gln Ala Leu Leu Glu Glu Gln Asn Leu Ser Val Ala Glu

155

150

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Arg	Pro	Phe	- Cys 180	Ala	Val	Суѕ	Gly	Phe 185	Pro		Pro	-	Thr 190	- Cys	Val
Sér	Cys		Ala		Tyr		Thr 200			-Cys		Gly 205		His	Gln
Glu [.]	Thr 210		Cys	Leu		Trp 215			i	4*					- 'E
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Gly	Asn	Cys	Gln	Lys	Cys	Ala	Phe	Gly	Tyr	Ser	Gly	Leu	Asp	Cys	Lys
1	٠	i .• •		. 5		. : -			10		. `			15	
Asp	Lys	Phe	Gln	Leu	Ile	Leu	Thr	Ile	Val	Glv	Thr	Ile	Ala	Glv	Ile
		:	20	٠,٠	٠.	7		25	• • •	. :	٠.		30		
Val	Ile	Leu	Ser	Met	Tle	Tle	Ala	t.eu	Tle	Val	Thr	Ala	Ara	Ser	Asn
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	Lys 50	Thr	Lys	His	Ile	Glu	Glu	Glu	Asn	Leu	Ile	Asp	Glu	Asp	Phe
	30	•		-		٠٠٠		-							-
Gln	Asn	Leu	Lys	Leu	Arg	Ser	Thr	Gly	Phe	Thr	Asn	Leu	Gly	Ala	Glu
65	-	٠.			70					75	٠.		• •		80
Gl.	50-	17 - 1	Dho	Bro	7	u 1	2 ~~	T10	Mb.∞			2	A c n	202	C1 n
GIY	361	. var	Phe		Lys		Arg						ASP	95	GIII
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Met	Gln	Asn												Asp	Tyr
			100	-		. :1		105	- :				110		
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Gly 1		Leu	Val	Cys 5		Met	Val	Ser	Tyr 10		. Asn	Asp	Leu	Pro 15	
Gln	Arg	Ile	Gln 20		Gln	Gln	Val	Ala 25		Trp	Pro	Thr	Met 30		Ası
Ile	Asn	Ser 35	Pro	Glu	Ser	Leu	Thr 40	Glu	Ala	Tyr	Lys	Leu 45	Arg	Ala	Ala
Arg	Leu 50	Val	Glu	Ile	Ala	Ala 55	Lys	Asn	Leu	Gln	Lys 60		Val	Ile	His
Arg 65	Lys	Ser	Lys	Glu	Val 70	Ala	Trp	Asn	Leu	Thr 75		Val	Asp	Leu	Val 80
Arg	Ala	Ser	Glu	Ala 85	His	Cys	His	Tyr	Val 90	Val	Val	Lys	Leu	Phe 95	Ser
Glu	Lys	Leu	Leu 100	Lys	Ile	Gln	Asp	Lys 105	Ala	Ile	Gln	Ala	Val 110	Leu	Arg
Ser	Leu	Cys 115	Leu	Leu	Tyr	Ser	Leu 120	Tyr	Gly	Ile	Ser	Gln 125	Asn	Ala	Gly
Asp	Phe 130	Leu	Gln	Gly	Ser	Ile 135	Met	Thr	Glu	Pro	Gln 140	Ile	Thr	Gln	Val
Asn 145	Gln	Arg	Val	Lys	Glu 150	Leu	Leu	Thr	Leu	Ile 155	Arg	Ser	Asp	Ala	Val 160
Ala	Leu	Val	Asp	Ala 165	Phe	Asp	Phe	Gln	Asp 170	Val	Thr	Leu	Gly	Ser 175	Val
Leu	Gly	Arg	Туг 180	Asp	Gly	Asn	Val	Туг 185	Glu	Asn	Leu	Phe	Glu 190	Trp	Ala
Lys	Asn	Ser 195	Pro	Leu	Asn	Lys	Ala 200	Glu	Val	His	Glu	Ser 205	Tyr	Lys	His
Leu	Lys 210	Ser	Leu	Gln	Ser	Lys 215	Leu							•	-

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Pro 1	Ser	Pro	Arg	Pro		Asp	Pro	Glu	Ser 10	Ser	Gln	Leu	Arg	Pro 15	_
Gly	Asp	Gly	Ala 20		Leu	Arg	Val	Leu 25	Val	Asp	Met	Asp	Gly	Val	Leu
Ala	Asp	Phe	Glu	Ala	Gly	Leu	Leu 40	Arg	Gly	Phe	Arg	Arg 45	Arg	Phe	Pro
Glu	Glu 50	Pro	His	Val	Pro	Leu 55	Glu	Gln	Arg	Arg	Gly 60	Phe	Leu	Ala	Arg
Glu 65	Gln	Tyr	Arg	Ala	Leu -70	Arg	Pro	Asp	Leu	Ala 75	Asp	Lys	Val	Ala	Ser 80
Val	Tyr	Glu	Ala	Pro -85	Gly	Phe	Phe	Leu	Asp 90	Leu	Glu	Pro	Ile	Pro 95	Gly
Ala	Leu	Asp								Leu					
Phe	Ile	Cys 1:15	Thr	Ser	Pro	Leu	Leu 120	Lys :	Tyr	His	His Atn	Cys 125	Val	Gly	Glu
Lys		Arg								Pro				Glu	Arg
Ile 145	Ile	Leu	Thr	Arg	Asp 150	Lys	Thr	Val	Val	Leu 155	Gly	Asp	Leu		Ile 160
Asp		Lys								Glu					
His		Leu		Thr	Cys		His			His		Val		Pro	Pro
Thr	Arg	Arg 195	Arg	Leu	Leu	Ser	Trp 200	Ser	Asp	Asn		Arg 205	Glu :	Ile	Leu
		Lys		Gly	Ala	Ala 215	Gln	Arg		:			. •	·	
		25			: -	-				* #		·	· ·		- .
212	> 87 > PR > Ho		apie				. .		٠.				٠.		
400	> 11	25		•						ž					-

Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe

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5
                                     10
Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr
                                 25
Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Pro
Phe Phe Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe
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Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe
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Thr Ser Pro Ser Leu Lys Gly
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Pro Pro Leu Gly Lys Lys Xaa Glu Leu His Arg Gly Gly Gly Arg Ser
Arg Leu Glu Glu Phe Gln Met Arg Ala Arg Pro Arg Pro Arg Pro Leu
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Trp Ala Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly Val Gly
Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys Gln Gln Cys
    50
Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
                    70
```

Leu	Gly	Ser	Pro	Arg 85		Asp	Leu	Lys	Glu 90		Leu	Leu	ı Lys	Asp 95	
Cys	Ala	Pro	Glu 100		Ile		Phe	Pro	Val		Glu		110		Leu
Glu	Asp	Arg					Lys 120		Ser				Ser		Val
Thr									Leu						
Ser 145		Asn	Phe	Ser	Ile 150	Gln	Val	Arg	Gln	Val 155		Asp	Tyr	Pro	Val 160
Asp	Ile	Tyr	Туr	Leu 165		~Asp	Leu		Туг 170	Ser	Met	਼Xaa	≃Gly	raa	:
-01		::													
<21	0> 1 1> 3 2> P	59	147.12	. 7		T 731		\$. ` \	: f .	.77 .78	** * ***	· · · ·	47.	· .	
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<40	0> 1.	127		A		£ .	, .					<u>.</u>		4	
									Val						T.ve
1				5	1		1		10		****		LCu	15	Dys
Arg	Cys	Ser							Arg						
Arg	His	Ile 35	Cys	Ser	Trp	Cys	Thr 40	Met	Val	Ser	Gly	Thr 45	Ser	Ala	Ala
Val	Glu 50	Glu	Tyr	Ser	-Cys	Glu 55	Phe	Gly	-Ser	Ala	Lys 60	Туг	· Тут	Ala	Leu
Cys 65	Gly	Phe	Gly		Val 70				Gly			His	Thr	Ala	Val 80
Val	Pro	Leu	Asp	Leu 85	Vāl	Lys	Cys	Arg	Met 90	Gln	Val	Asp	Pro	Gln 95	Lys
Tyr	Lys	Gly.	Ile 100	Phe	Asn	Gly	Phe	Ser 105	Val	Thr	`Leu	Lys	Glu 110	Asp	Gly
Val:	Arg	Gly 115		Ala	Lys	Gly	Trp	Ala:	Pro-	Thr	Phe	Leu 125	Gly	Tyr	Ser
1et	Gln	Glv	Leu	Cvs	Lvs	Phe	Glv	Phe	TVr	Glo	Väl	Phe	Tue	Va 1	T.eu

	130)				135					140	1			
Tyr 145		Asn	Met	Leu	Gly 150		Glu	Asn	Thr	Tyr 155		Trp	Arg	Thr	Sei
Leu	Tyr	Leu	Ala	Ala 165	Ser	Ala	Ser	Ala	Glu 170		Phe	Ala	Asp	11e	
Leu	Ala	Pro	Met 180		Ala	Ala	Lys	Val 185		Ile	Gln	Thr	Gln 190		Gly
Tyr	Ala	Asn 195	Thr	Leu	Arg	Asp	Ala 200	Ala	Pro	Lys	Met	Tyr 205		Glu	Glu
Gly	Leu 210	Lys	Ala	Phe	Tyr	Lys 215	Gly	Val	Ala	Pro	Leu 220	Trp	Met	Arg	Gln
11e 225	Pro	Tyr	Thr	Met	Met 230	Lys	Phe	Ala	Cys	Phe 235	Glu	Arg	Thr	Val	Glu 240
Ala	Leu	Tyr	Lys	Phe 245	Val	Val	Pro	Lys	Pro 250	Arg	Ser	Glu	Cys	Ser 255	Lys
Pro	Glu	Gln	Leu 260	Val	Val	Thr	Phe	Val 265	Ala	Gly.	Tyr	Ile	Ala 270	Gly	Val
Phe	Суѕ	Ala 275	Ile	Val	Ser	His	Pro 280	Ala	Asp	Ser	Val	Val 285	Ser	Val	Leu
Asn	Lys 290	Glu	Lys	Gly	Ser	Ser 295	Ala	Ser	Leu	Val	Leu 300	Lys	Arg	Leu	Gly
Phe 305	Lys	Gly	Val	Trp	Lys 310	Gly	Leu	Phe	Ala	Arg 315	Ile	Ile	Met.	Ile	Gly 320
Thr	Leu	Thr	Ala	Leu 325	Gln	Trp	Phe	Ile	Tyr 330	Asp	Ser	Val	Lys	Val 335	Tyr
Phe	Arg	Leu	Pro 340	Arg	Pro	Pro	Pro	Pro 345	Glu	Met	Pro	Glu	Ser 350	Leu	Lys
Lys	Lys	Leu 355	Gly	Leu	Thr	Gĺn									

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His Cys Ser His Glm Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
Leu Leu Trp Val Pro Val: Asp Gly: Gln Val: Asp Thr. Thr. Lys. Aka: Val:
Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val.
                         55.
Thr Leu His Cys Glu Val Leu His Leu Pro Gly Ser Ser Ser Thr Gln
            .70
                                       .75
Trp Phe Leu Asn Gly Thr. Ala. Thr. Gln. Thr Ser. Thr. Pro Ser Tyr Arg
                85:
                                    .90
Ile Thr Ser Ala Ser Val: Asn Asp Ser Gly Glu Tyr Arg Cys Gln Arg
                  . 105
Gly Leu Ser Gly Arg Ser Asp Pro Ile Gln Leu Glu Ile His Arg Gly
        115
                          120
Trp Leu Leu Gln Val Ser Ser Arg Val Phe Thr Glu Gly Glu Pro:
                       135
Leu Ala Leu Arg Cys His Ala Trp Lys Asp Lys Leu Val Tyr Asn Val
                   150
                                       155.
Leu Tyr Tyr Arg Asn Gly Lys Ala Phe Lys Phe Phe His Trp Asn Ser.
               165
Asn Leu Thr Ile Leu Lys Thr Asn Ile Ser His Asn Gly Thr Tyr His.
                               185
Cys Ser Gly Met Gly Lys His Arg Tyr Thr Ser Ala Gly Ile Ser Xaa.
       195
                           200
```

Thr Val Lys Glu Leu Phe Pro Ala Pro Val Leu Asn Ala Ser Val Thr

	210					215					220				
Ser 225		Leu	Leu	Glu	Gly 230	Asn	Leu	Val	Thr	Leu 235		Cys	Glu	Thr	Ly 24
Leu	Leu	Leu	Gĺn	Arg 245	Pro	Gly	Leu	Gln	Leu 250	Tyr	Phe	Ser	Phe	Tyr 255	
Gly	Ser	Lys	Thr 260	Leu	Arg	Gly	Arg	Asn 265		Ser	Ser	Glu	Tyr 270	Gln	11
Leu	Thr	Ala 275	Arg.	Arg	Glu _.	Asp	Ser 280	Gly	Leu	Tyr	Trp	Cys 285	Glu	Ala	Al
Thr	Glu 290	Asp	Gly	Asn	Val	Leu 295	Lys	Arg	Ser	Pro	Glu 300	Leu	Glu	Leu	Gl
Val 305	Leu	Gly	Leu	Gln _.	Leu 310	Pro	Thr	Pro	Val	Trp	Phe	His	Val	Leu	Ph 32
Tyr	Leu	Ala	Val	Gly 325	Ile	Met	Phe	Leu	Val	Asn-	Thr	Val	Leu	Trp 335	۷a
Thr	Ile	Arg	Lys 340	Glu	Leu	Lys	Arg	Lys 345	Lys	Lys	Trp	Xaa	Leu 350	Glu	Il
Ser	Leu	Asp 355	Ser	Gly	His	Glu	Lys 360	Lys	Val	Ile	Ser	Ser 365	Leu	Gln	Gl
Asp	Arg 370	His	Leu	Glu	Glu	Glu 375	Leu	Lys	Cys	Gln	Glu 380	Gln	Lys	Glu	Gl
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	.> SI !> (7														
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<220 <221		TE .		•											
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Glu 1		Leu	Phe	Ile 5	Phe	Xaa	Xaa	Phe	Phe 10		Gly	Leu	Ser	Asn 15	
Ala	Ala	Ala	Met 20		Pro	Val	Lys	Lys 25	Leu	Val	Val	Lys	Gly 30	_	Lys
Lys	Lys	Lys 35		Val	Leu	Lys	Phe 40	Thr	Leu	Asp	Суз	Thr 45	His	Pro	Va]
	50	4	•		Asp	55					60				
	Ile	Lys	Val	Asn	Gly 70	Lys	Ala	Gly	Asn	Leu 75	Gly	Gly	Gly	Val	Val
 Thr		Glu	Arg	Ser 85	Lys	Ser	Lys	Ile	Thr.	Val	Thr	Ser	Glu	Val 95	Pro
Phe			Arg 100	Tyr	Leu	Lys	Tyr	Leu 105	Thr	Lys	Lys	Tyr	Leu 110	Lys	Lys
Asn	Asn	Leu 115	Arg	Asp	Trp	Leu	Arg 120	Val	Val	Ala	Asn	Ser 125	Lys	Glu	Ser
Tyr	Glu 130				Phe										
Asp 145		Asp		TO ST		4.1.	2.	-12	. · ʊ	L : 1		\$1.v	. • • .*	: **	Fig.
	•		•	2 B	-	**2	. :	. • •		. :		•	• •		٠.
<21	0> 1: 1> 9: 2> PI				•	-	:	* * .	5 -	. =	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
			sapie	ens	:	•		. :	···· .	٠.:		٠			-
	0> 1: Cys		Pro	Ala 5	Phe	Tyr	Gly	Ser	Ser 10	Leu	Pro	Cys	Pro	Gln 15	Thr
Gln	Gln	Lys	Arg 20	Arg	Gly	Arg	Ile	Arg 25	Gly	Leu	Ser	Arg	Pro 30	Ala	Pro
Leu	Pro	Thr 35	Cys	His	Thr	Arg	Cys 40	Glu	Phe:	Gl <u>u</u>	His	Ser 45	Pro	Glu	Met
Glu	Thr.		His		Gln			Asn		Pro	Phe 60	Met.	Pro	Thr	Leu

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Pro Thr Arg Arg Gly Gln Arg Cys. Thr Arg Arg Pro Ser Ser Pro
Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
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Val Thr Thr Ser Ser Leu Arg Leu Asn Trp Glu Ala Pro Pro Gly Ala
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Phe Asp Ser Phe Leu Leu Arg Phe Gly Val Pro Ser Pro Ser Thr Leu
                            40
Glu Pro His Pro Arg Pro Leu Leu Gln Arg Glu Leu Met Val Pro Gly
                        55
Thr Arg His Ser Ala Val Leu Arg Asp Leu Arg Ser Gly Thr Leu Tyr
                    70
Ser Leu Thr Leu Tyr Gly Leu Arg Gly Pro His Lys Ala Asp Ser Ile
                85
                                    90
Gln Gly Thr Ala Arg Thr Leu Ser Pro Val Leu Glu Ser Pro Arg Asp
           100
                        105
Leu Gln Phe Ser Glu Ile Arg Glu Thr Ser Ala Lys Val Asn Trp Met
                        120
Pro Pro Pro Ser Arg Ala Asp Ser Phe Lys Val Ser Tyr Gln Leu Ala
```

		Gly	Glu				Val	Gln	Val			Gln	Ala	Arg	
145				.•						155					160
Gln	Lys	Leu	Gln	Gly 165	Leu	Ile	Pro	Gly	Ala 170		Tyr	Glu	Val	Thr 175	
			Arg 180		Phe	Glu	Glu	Ser 185		Pro	Leu	Thr	Gly 190		Leu
							Thr 20.0.								
	٠	193.	-			gh	20.0.					203	٠. ،	••	
							Trp								
				• • •	• •						220		, -	-	
							Ala								
44.3 .	'-		:	• '	2.3.0.				! T	233			- '	130 }	240
							Asp								
-			*	245					25.0	,	a tr	• .		255:	
							Val								
'-	٠		260				:	2.65	:				2.70	- :	•
Thr	Ser	Pro	Ala	Ser	Ile	Thr	Phe	Thr	Thr	Gly	Leu	Glu	Ala	Pro	Arg
		275					280					285			
Asp	Leu	Gľu	Ala	Lys	Glu	Val	Thr	Pro	Arg	Thr	Ala	Leu	Leu	Thr	Trp
	290			•	,	295					300				
Thr	Glu	Pro	Pro	-Val	Arg	Pro	Ala	Gly	туr	Leu	Leu	ser	Phe	His	Thr
305		٠.			310					315					320
Pro	Gly	Gly:	Gln	Thr	Gln	Glu	Ile	Leu	Leu	Pro	Gly	Gly	Ile	Thr	Ser.
			•	325					330	•				335	
His	Gln	Leu	Leu	Gly	Leu.	Phe	Pro	Ser	Thr	Ser.	Tyr	Asn	Ala	Arg	Xaa
			340					345					350		
Gln	Ala	Met	Trp	Gly	Gln	Ser	Leu	Leu	Pro	Pro	Val-	Ser.	Thr	Ser	Phe.
		355					360					365			
Thr	Thr	Gly	Gly	Leu	Arg	I·le	Pro.	Phe	Pro	Arg	Asp	Cys.	Gl y	Glu	Glu
	370					375					380				•
Met	Gln	Asn	Gly	Ala	Gly	Ala	Ser	Arg	Thr	Ser	Thr	Ile	Phe	Leu	Asn
385			•		390			,		395					400
Glv	Asn	Ara	Glu	Ara	Pro	Len	Asn	Val-	Phe	Cvs	Asp-	Met	Glu	Thr	Asp
-4		· 7·		405					410	- 3 -	· •			415	

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Gly Gly Gly Trp Leu Val Phe Gln Arg Arg Met Asp Gly Gln Thr Asp
             420
                                 425
 Phe Trp Arg Asp Trp Glu Asp Tyr Ala His Gly Phe Gly Asn Ile Ser
      435
                             440
 Gly Glu Phe Trp Leu Gly Asn Glu Ala Leu His Ser Leu Thr Gln Ala
                         455
 Gly Asp Tyr Ser Met Arg Val Asp Leu Arg Ala Gly Asp Glu Ala Val
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                                         475
Phe Ala Gln Tyr Asp Ser Phe His Val Asp Ser Ala Ala Glu Tyr Tyr
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Arg Leu His Leu Glu Gly Tyr His Gly Thr Ala Gly Thr Pro
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<22	-														
	1> s														
		428)													
<22	3> x	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
	•										- Î	•			
	0> 1										•				
_			_			Val	Thr	Ala	Ala	Leu	Thr	Lys	Arg	Ser	Trp
1		17	• .:	. ;5					10			•		15	
											•				
Asn	Ser									Glu					
			20	• • • • • • • • • • • • • • • • • • • •	2 - 4 - 1	· • .		25				• 6. 13	30	;	~ .
-												•			
										Trp				Trp	Gln
		35		• •			4.0	: .				45			
		•				_	_	_			_		_	_	
										Phe					
-	50	 -		, .	1 2.	55;	*. *		· ·		6.0		1.12		
_1		_	_							-1 -		; ·			
		_								Phe					_
65		J .:		· :	./0.	: •	٠.	• .	7 7	7.5		: .	- 1-7		80
-			.						•		·	•••	•		-1
-										Pro					_
		٠.		.85					90	٠.				35	• .
	C		M		63	61		*** 1		G1	3	3	61 -	71 -	-
										Gly					
•			100				;	103	-			-	110	. 1	•
C1	m	17-1	710	C1	mh ÷	Cln	Cl.	212	mb~	Pro	G1	Dro	ת 1 ת	m	
GIY	TYL									PIO			Ald	TYL	Set
•		1.13		•			120	٠.	* *			123		•	
G1v	Ara	Glu	Tla	Tla	Tur	Pro	Aen	α (α	Ser	Leu	T.e.u	Tle	Gln	Aen	Tle
												116		N311	116
•	130	-	•			133.					110		-		
Tle	Gln	Asn	Asp	Thr	Glv	Phe	Tur	Thr	T.e.ii	His	va 1	Tle	T.vs	Ser	Asn
145										155					
					150					. 132		-		•	
Leu	Val	Asn	Glu	Glu	Ala	Thr	Glv	Gln	Phe	Arg	Val	Tvr	Pro	Glu	Leu
			,	165			,		170	_		_		175	
			180						Ž, 0						
Pro	Lvs	Pro	Ser	Ile	Xaa	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lvs
	-,-		180					185		-3-		4, -			-3-
•	-									-	-				
Asp	Ala	Val	Ala	Phe	Thr	Cvs	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr
		195				- 1 -	200			=		205			.
- · ·															
				_									•	-	C1-

	210	,				215)				220)		•	
Leu 225		Asn	Gly	Asn	Arg 230		Leu	Thr	Leu	235		Val	. Thr	Arg	240
Asp	Thr	Ala	Ser	Tyr 245		Cys	Glu	Thr	Gln 250		Pro	Val	. Ser	Ala 255	-
Arg	Ser	Asp	Ser 260		Ile	Leu	Asn	Val 265		Tyr	Gly	Pro	Asp 270		Pro
Thr	Ile	Ser 275	Pro	Leu	Asn	Thr	Ser 280	Tyr	Arg	Ser	Gly	G1u 285		Leu	Asn
Leu	Ser 290	Cys	His	Ala	Ala	Ser 295	Asn	Pro	Pro	Ala	Gln 300		Ser	Trp	Phe
Val 305	Asn	Gly	Thr	Phe	Gln 310	Gln	Ser	Thr	Gln	Glu 315	Leu	Phe	Ile	Pro	Asn 320
Ile	Thr	Val	Asn	Asn 325	Ser	Gly	Ser	Tyr	Thr 330	Cys	Gln	Ala	His	Asn 335	Ser
Asp	Thr	Gly	Leu 340	Asn	Arg	Thr	Thr	Val 345	Thr	Thr	Ile	Thr	Val 350	Tyr	Ala
Glu	Pro	Pro 355	Lys	Pro	Phe	Ile	Thr 360	Ser	Asn	Asn	Ser	Asn 365	Pro	Val	Glu
Asp	Glu 370	Asp	Ala	Val	Ala	Leu 375	Thr	Cys	Glu	Pro	Glu 380	Ile	Gln	Asn	Thr
Thr 385	Tyr	Leu	Trp	Trp	Val 390	Asn	Asn	Gln	Ser	Leu 395	Pro	Val	Ser	Pro	Arg 400
Leu	His	Leu	Pro	Met 405	Thr	Thr	Xaa	Pro	Xaa 410	Leu ;	Tyr	Ser	Xaa	Ala 415	Gln
Gly	Met	Met	Xaa 420	Asp	Pro	Met	Asn	Val 425	Glu	Ser	Xaa	Thr	Asn 430		-
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<223> Xaa equals any of the naturally occurring L-amino acids
 into an indicate and day when the did light we will a number also have
<220>
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<221> SITE
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<400> 1133
Xaa His Ala Ser Ala Ala Xaa Pro Thr Val Thr Ala Ala Leu Thr Arg
            5 10
Ala Phe Leu Glu Leu Lys Leu Ser Thr Lys Arg Trp Thr Glu Lys Thr
       20 25 30
Ala Glu Thr Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu His Val
               40
       Pro Trp Lys Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn
   50 55 60
        and the second of the second
Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val
```

63	1				/()				7 :	5				8
Ala	. Glu	Gly	, Lys	61v 85		l Leu	ı Leu	l Leu	ı Ala		s Asr	ı Let	ı Pro	95	
Arg	Ile	Gly	туг 100		Trp	Туг	: Lys	Gly 105		Arg	y Val	L Asp	Gly 110		Se:
Leu	Ile	Val		Tyr	Val	. Ile	Gly 120		Gln	Glr	n Ala	125	Pro	Gly	Pro
Ala	Туг 130		Gly	Arg	Glu	Thr 135		Tyr	Pro	Asn	140		Leu	Leu	Ile
Gln 145	Àsn	Val	Thr	. Gln	150		Thr	Gly	Phe	155		Leu	Gln	Val	11e
Lys	Ser	Asp	Leu	Val 165		Glu	Glu	Ala	Thr 170		Gln	Phe	His	Val 175	Туг
Pro	Glu	Leu	Pro 180	Lys	Pro	Ser	Ile	Ser 185		Asn	Asn	Ser	Asn 190	Pro	Val
Glu	Xaa	Lys 195	Asp	Ala	Val	Ala	Phe 200	Thr	Cys	Glu	Pro	Glu 205	Val	Gln	Asn
Thr	Thr 210	Туr	Leu	Trp		Val 215	Asn	Gly	Gln	Ser	Leu 220	Pro	Val	Ser	Pro
Arg 225	Leu	Gln	Leu	Ser	Asn 230		Asn	Met	Thr	Leu 235	Thr	Leu	Leu	Ser	Val 240
Lys	Arg	Asn	Asp	Ala 245		Ser	Tyr	Glu	Cys 250		Ile	Gln	Asn	Pro 255	Ala
Ser	Ala	Asn	Arg 260	Ser	Asp	Pro		Thr 265	Leu	Asn	Val	Leu	Tyr 270	Gly	Pro
Asp	Gly	Pro 275	Thr	Ile	Ser	Pro	Ser 280	Lys	Ala	Asn	туг	Arg 285	Pro	Gly	Glu
Asn	Leu 290	Asn	Leu	Ser	Cys	His 295	Ala	Ala	Ser	Asn	Pro 300	Pro	Ala	Gln	Tyr
Ser 305	Trp	Phe	Xaa	Asn	Gly 310	Thr	Phe	Gln	Gln	Ser 315	Thr	Gln	Glu	Leu	Phe 320
Ile	Pro	Asn	Ile	Thr 325	Val	Asn	Asn	Ser	Gly 330	Ser	Tyr	Thr	Сув	Gln 335	Ala
His	Asn	Ser	Aen.	Thr	G1 v	Len	Acr	A ~ ~	Thr	Thr	17 a 1	Thr	Thr	Tla	ም ኮ~

			340					345	•				350	1	
Val	Tyr	Ala 355	Glu	Pro	Pro	Lys	Pro 360		Ile	Thr	Ser	Asn 365		Ser	. Ası
Pro	Val 370	Glu	Asp	Glu	Asp	Ala 375		Ala	Leu	Thr	Суs 380		Pro	Glu	Ile
Gln 385	Asn	Thr	Thr	Týr	Leu 390	Trp	Trp	Vaļ	Asn	Asn 395		Ser	Leu	Pro	Val 400
Ser	Pro	Arg	Leu	Gln 405	Leu	Ser	Asn	Asp	Asn 410		Thr	Leu	Thr	Leu 415	
Ser	Val	Thr	Arg 420	Asn	Asp	Val	Gly	Pro 425	_	Glu	Cys	Gly	Ile 430		Asn
Gļu	Leu	Ser 435	Val	Asp	His	Ser	Asp 440	Pro	Val	Ile	Leu	Asn 445	Val	Leu	Tyr
Gly	Pro 450	Asp	Asp	Pro	Thr	11e 455	Ser	Pro	Ser	Tyr	Thr 460	Туr	Tyr	Arg	Pro
Gly 465	Val	Asn	Leu	Ser	Leu 470	Ser	Суз	His	Ala	Ala 475	Ser	Asn	Pro	Pro	Ala 480
Gln	туr	Ser	Trp	Leu 485	Ile	Asp	Gly	Asn	Ile 490	Gln	Glņ	His	Thr	Gln 495	Glu
Leu	Phe	Ile	Ser 500	Asn	Ile	Thr	Glu	Lys 505	Asn	Ser	Gly	Leu	Туг 510	Thr	Cys
Gln	Ala	Asn 515	Asn	Ser	Ala	Ser	Gly 520	His	Ser	Arg	Thr	Thr 525	Val	Lys	Thr
Ile	Thr 530	Val	Ser	Ala	Xaa	Xaa 535	Pro	Lys	Pro	Ser	Ile 540	Ser	Ser	Asn	Asn
Ser 545	Lys	Pro	Val	Glu	Asp 550	Lys	Asp	Ala	Val	Ala 555	Phe	Thr	Суз	Glu	Pro 560
Glu	Ala	Gln	Asn	Thr 565	Thr	Tyr	Leu .:	Trp	Trp 570	Val	Asn	Gly	Gln	Ser 575	Leu
Pro	Val	Ser	Pro 580	Arg	Leu	Gln	Leu	Ser 585	Asn	Gly	Asn	Arg	Thr 590	Leu	Thr
Leu	Phe	Asn 595	Val	Thr	Arg	Asn	Asp 600	Ala	Arg	Ala	Tyr	Val 605	Cys	Gly	Ile
3ln	Asn	Ser	Val	Ser	Ala	Asn	Ara	Ser	Asp	Pro	Val	Thr	Leu	Asp	Val

	610)		*		615	5				620)			
Leu 625	Tyr	Gly	Pro	Asp	Thr 630		Ile	e Ile	: Ser	Pro 635		Asp	Ser	: Ser	Tyr 640
Leu	Ser	Gly	Ala	Asn 645		Asn	Leu	Ser	Cys 650		Ser	Ala	Ser	655	
Ser	Pro	Gln	Tyr 660		Trp	Arg	Ile	Asn 665		Ile	Pro	Gln	Gln 670	His	Thr
Gln	Val	Leu 675	Phe	Ile	Ala	Lys	Ile 680		Pro	Asn	Asn	Asn 685		Thr	Tyr
Ala	Cys 690	Phe	Val	Ser	Asn	Leu 695		Thr	Gly	Arg	Asn 700	Asn	Ser	Ile	Val
Lys 705	Ser	Ile	Thr	Val	Ser 710	Ala	Ser	Gly	Thr	Ser 715	Pro	Gly	Leu	Ser	Ala 720
Gly	Ala	Thr	Val	Gly 725	Ile	Met	Ile	Gly	Val 730	Leu	Val	Gly	Val	Ala 735	Leu
Ile									. ·						
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-210)- IIC	J1110 S	apre	:113											
<220												•			
	l> 51														
	?> (4 }> xa		mals	anv	, of	the	nati	ırall			·	 T	nino	acio	10
									.,			D - G II		acic	15
)> 11														
Phe 1	Gly	Thr	Xaa	Arg 5	Ser	Val	Val	Leu		Leu	Val	Ala	Val	Arg 15	Leu
His	Thr	Leu	Leu 20	Ser	Cys	Pro	Leu	Glu 25	Gln	Pro	Ala	Gly	Thr 30	Glu	Trp
Ile	Leu	Glu 35	Glu [.]	Gly	Val	Thr	Thr 40	Gly	Pro	Pro	Ārg	Lys 45	Pro	Arģ	Ala
Asp	Ile 50	Tyr	Asn	Leu	Arg	Ser 55	Pro	Asp	Glů	Phe -	Ile 60	Val	Gly	Gln	Asņ

Gln Ala Leu 65	ı Ile Glu	Pro Gly	7			٠	
		: •	·	r i i i i i i i i i i i i i i i i i i i			
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<213> Homo	sapiens	•					
					· ·		
<220>		٠					
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<222> (101)	·			*:	3 m . "1		
<223> Xaa e	equals an	y of the	e natura	lly occur	ring L-	amino	acids
<400> 1135					atra . Y		
Gly Leu Arg	Arg Leu	Asp Ser	Ala Se	r Gly Thr	Val Ty	r Thr	Ala Met
1	- 5			10			15
Asp Val Ala	_	Gln Glu		_	Gln Me		Leu Gln
	20		2!			30	
Gln Gln Pro			•				•
35	-	GIU Let	40	: ASII GIU		u vai 5	met Arg
	inger en en	tun .			•		
Glu Asn Lys	Asn Pro	Asn Ile	Val Ası	Tyr Leu	Asp Se	r Tyr	Leu Val
50		5 5	•	•	60		
Gly Asp Glu	Leu Trp		. Met Glu			y Gly	
65		70		75			80
Thr Asp Val	Val Thr	Glu Thr	Cvs Met	Asp Glu	Glv Gl	n Ile	Ala Ala
The second second				90	,		95
		• •			•		
Val Cys Arg	Glu Xaa	Leu Gln			Leu Hi	s Ser	Asn Gln
	100		105	,		110	
	_, _,						
Ile Thr Pro		-	_	Thr Met		-	Pro Tyr
115	- •	- 1	120		12	,	
Trp Met Ala	Pro Glu	Val Val	Thr Arc	Lvs Ala	Tyr Gl	y Pro	Lys Val
130		- 135		_			•
Asp Ile Trp							
		150		155	- 3 - 2		160
·.	_		_	_ =			
Pro Pro Tyr			Pro Leu	_	Leu Ty	r Leu	
•	. 165	- . •		170			175
Thr Asn Gly	Thr Pro		Gln Asn	Pro Glu	Lvs Le	ı Ser	Ala Tle
	180		185		_,	190	

Phe	Arg	195	Phe	e Leu	ı Asn	Arg	200		ı Glu	ı Met	. Asp	205		ı Lys	s Ar
Gly	Ser 210		Lys	Glu	Leu	Leu 215		His	Glr	Phe	Leu 220		: Ile	e Ala	Lys
Pro 225		Ser	Ser	Leu	Thr 230		Leu	Ile	. Ala	Ala 235		Lys	Glu	ı Ala	Th:
Lys	Asn	Asn	His	÷ -											
							٠.		• .•						
	0> 1 1> 1							-			-				
	2> P 3> H		sapi	ens				-				-			
	0> 1														
Arg 1	Ala	Glu	Phe	Gly 5	Thr	Ser	Pro	Arg	Ala 10	Arg	Arg	His	Glu	Cys 15	Cys
Arg	Phe	Leu	Asp 20	Asp	Asn	Gln	Ile	Ile 25	Thr	Ser	Ser	Gly	Asp 30	Thr	Thr
Cys	Ala	Leu 35	Trp	Asp	Ile	Glu	Thr 40	Gly	Gln	Gln	Thr	Val. 45	Gly	Phe	Ala
Gly	His 50	Ser	Gly	Asp	Val	Met 55	Ser	Leu	Ser	Leu	Ala 60	Pro	Asp	Gly	Arg
Thr 65	Phe	Val	Ser	Gly	Ala 70	Cys	Asp	Ala	Ser	Ile 75	Lys	Leu	Trp	Asp	Val 80
Arg	Asp	Ser	Met	Cys 85	Arg	Gln	Thr	Phe	Ile 90	Gly	His	Glu	Ser	Asp 95	Ile
Asn	Ala	Val	Ala 100	Phe	Phe	Pro	Asn	Gly 105	Tyr.	Ala	Phe	Thr	Thr 110	Gly	Ser
Asp	Asp	Ala 115	Thr	Cys:	Arg	Leu	Phe 120	Asp	Leu	Arg	Ala	Asp 125	Gln	Glu	Leu
Leu	Met 130	туг	Ser	His	Asp	Asn 135	Ile	Ile	Cys	Gly	Ile 140	Thr	Ser	Val	Ala
Phe	Ser	Arg	Ser	Asp	Gly	Суз	Cys	Ser	Leu	Ala	Thr	Thr	Thr	Ser	Thr

Ala Thr Ser Gly Met Pro 165

and the control of th <210> 1137 <211> 79 <213> Homo sapiens Thr Asn Asn Lys Ser Leu Val Gln Leu Lys His Ile Ser Asn Asp Phe 1 5 10 Jan 1920 J. H. 1941 J. J. J. 1970 May 241 Sept. Interp Ser Lys Phe Lys Val Asp His Asp Arg Ile Ile Lys Asp Arg Lys Asp 25 Leu Ser Asn Leu Val Met Thr Ile Ile Ser Ile Phe Ala Glu Leu Lys 35 40 45 in the first they will be a true of the first will be the first the first the first term of the first of the first term Ile Phe Asn Phe Ile Asn Met Leu Leu Gln Leu Pro Asp Leu Lys Lys 50 55 60 50 THE COLUMN TWO IS A STATE OF THE Lys Ser Phe Pro His Ser Gln Leu Lys Val Arg Thr Leu His Phe 70 Definition of the control of the <211> 397 <212> PRT <213> Homo sapiens Pro Thr Arg Pro Ser Ser Val Ser Arg Arg Asp Lys Ser Lys Gln Val 5 . 10 Trp Glu Ala Val Leu Leu Pro Leu Ser Leu Leu Ser Met Met Asp Leu 25 Arg Asn Thr Pro Ala Lys Ser Leu Asp Lys Phe Ile Glu Asp Tyr Leu Leu Pro Asp Thr Cys Phe Arg Met Gln Ile Asn His Ala Ile Asp Ile 50 55 Ile Cys Gly Phe Leu Lys Glu Arg Cys Phe Arg Gly Ser Ser Tyr Pro Val Cys Val Ser Lys Val Val Lys Gly Gly Ser Ser Gly Lys Gly Thr 85 90

Thr	Leu	Arg	Gly 100		Ser	Asp	Ala	105		Val	. Val	Phe	110		Pro
Leu	Thr	Thr 115		Gln	Asp	Gln	Leu 120	Asn	Arg	Arg	Gly	Glu 125		lle	Gļr
Glu	Ile 130		Arg	Gln	Leu	Glu 135	Ala	Cys	Gln	Arg	Glu 140		Ala	Phe	Ser
Val 145	Lys	Phe	Glu	Val	Gln 150	Ala	Pro	Arg	Trp	Gly 155		Pro	Arg	Ala	Leu 160
Ser	Phe	Val	Leu	Ser 165	Ser	Leu	Gln	Leu	Gly 170	Glu	Gly	Val	Glu	Phe 175	_
Val	Leu	Pro	Ala 180	Phe	Asp	Ala	Leu	Asp 185		Ala	Arg	Thr	Gly 190		Leu
Thr	Gly	Gly 195	Tyr	Lys	Pro	Asn	Pro 200	Gln	Ile	Tyr	Val	Lys 205	Leu	Ile	Glu
Glu	Cys 210	Thr	Asp	Leu	Gln	Lys 215	Glu	Gly	Glu	Phe	Ser 220	Thr	Cys	Phe	Thr
Glu 225	Leu	Gln	Arg	Asp	Phe 230	Leu	Lys	Gln	Arg	Pro 235	Thr	Lys	Leu	-	Ser 240
Leu	Ile	Arg	Leu	Val 245	Lys	His	Trp	туr	Gln 250	Asn	Суѕ	Lys	Lys	Lys 255	
Gly	Lys	Leu	Pro 260	Pro	Gln	Tyr	Ala	Leu 265	Glu	Leu	Leu	Thr	Val 270	Tyr	Ala
Trp	Glu	Arg 275	Gly	Ser	Met	Lys	Thr 280	His	Phe	Asn	Thr	Ala 285	Gln	Gly	Phe
Arg	Thr 290	Val	Leu	Glu	Leu	Val 295	Ile	Asn	Tyr	Gln	Gln 300	Leu	Cys	Ile	туг
Trp 305	Thr	Lys	Tyr	Tyr	Asp 310	Phe	Lys	Asn	Pro	Ile 315		Glu	Lys	Tyr	Leu 320
Arg	Arg	Gln	Leu	Thr 325	Lys	Pro	Arg	Pro	Val 330	Ile	Leu	Asp	Pro	Ala 335	Asp
	٠		340			•		345					350		
Ala	Gln	Glu 355	Ala	Glu	Ala		Leu 360	Asn		Pro		Phe 365	Lys	Asn	Trp

Asp	Gly 370		Pro	Val	Ser	Ser 375		Ile	Leu	Leu	Val 380		Pro	Pro	Ala
Ser 385		Leu	Pro	Phe	Ile 390					His 395	Glu	Ala		·· .	·
	0> 1 1> 1						٠.		٠٠,		au 70				٠
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	_		sapi				•				;				٠
										+ 1 1					
Phe 1	Leu	Leu	Ser	Asn 5	Ala	Arg	Trp	Ser	Asn 10	Arg	Pro	.Asp	Thr	Ala 15	Thr
	.* :				•					٠.					
Ala	Leu	Ala	Gly 20	Gly	Ala	Val	Met	Pro 25	Glu	Leu	Ile	Leu	30		·.
Thr	Ala		His	Pro	Leu	Lys		Phe	Ala	Cys	Ser	_		ਂ ਤ Val	
		35					40				-1	45	:	7	
Thr	Pro 50	Ser	Leu	Val	Lys	Ser 55	Thr	•		Leu	Leu 60		Arg	Pro	Leu
Ser 65	Ala	Val	Val	Leu	Lys 70	Arg		Glu	Ile	Leu 75	Thr	-		Ser	Leu 80
Ser	Ser	Leu	Ala	Val 85	Ser	Суѕ	Pro	Leu		Ser		Val			Arg
Ser	 Phe	Gln	Thr	Ser	Ala	Ile	Ser	Arg 105	Asp	Ile	Asp	Thr	Ala 110	Ala	Lys
Phe	Ile	Glý 115	Ala	Gly	Ala	Ala	Thr 120	Val	Gly	Val		Gly 125	Ser	Gly	Ala
Gly	11e 130	Gly	Thr	Val		Gly 135			Ile	Ile	Gly 140	Tyr	Ala	Arg	Asn
Pro 145	Ser	Leu	Lys	Gln	Gln 150	Leu	Phe		Tyr	Ala 155	Ile	Leu	Gly	Phe	Ala 160
Leu	Ser	Glu	Ala	Met 165	Gly	Leu	Phe	Cys	Leu 170	Met	Val	Ala	Phe	Leu 175	Ile
Leu	Phe	Ala	Met 180												

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Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
                                  25
His Arg Cys Ala Asp Phe Gly Met Ala Ala Asp Lys Asn Lys Phe Pro
                              40
Gly Asp Ser Val Val Thr Gly Arg Gly Arg Ile Asn Gly Arg Leu Val
Tyr Val Phe Ser Gln Asp Phe Thr Val Phe Gly Gly Ser Leu Ser Gly
                     70
Ala His Ala Gln Lys Ile Cys: Lys Ile Met Asp Gln Ala Ile Thr Val
                 85
Gly Ala Pro Val Ile Gly Leu Asn Asp Ser Gly Gly Ala Arg Ile Gln
Glu Gly Val Glu Ser Leu Ala Gly Tyr Ala Asp Ile Phe Leu Arg Asn
        115
Val Thr Ala Ser Gly Val Ile Pro Gln Ile Ser Leu Ile Met Gly Pro
                        135
Cys Ala Gly Gly Ala Val Tyr Ser Pro Ala Leu Thr Asp Phe Thr Phe
                    150
                                        155
Met Val Lys Asp Thr Ser Tyr Leu Phe Ile Thr Gly Pro Asp Val Val
                165
Lys Ser Val Thr Asn Glu Asp Val Thr Gln Glu Glu Leu Gly Gly Ala
                                185
Lys Thr His Thr Thr Met Ser Gly Val Ala His Arg Ala Phe Glu Asn
        195
                            200
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Asp	Val 210		Ala	Leu	Cys	Asn 215	Leu	Arg	Asp	Phe	220		Tyr	Leu	Pro
Leu 225		Ser	Gln	Asp	Pro 230	Ala	Pro	Val	Arg	Glu 235	_	His	Asp	Pro	Ser 240
Asp	Arg	Leu	Val	Pro 245	Glu	Leu	Asp	Thr	Ile 250		Pro	Leu	Glu	Ser 255	
Lys	Ala	Tyr	Asn 260		Val		Ile						Asp 270		Arg
Glu	Phe	Phe 275			Met			-		_				Val	Gly
					Gly			Val	_		Val 300	_		Gln	Pro
Lys 305	Val	Ala	Ser	Gly	Cys 310		Asp					Val	Lys	Gly	Ala 320
Arg		Val	Arg	Phe 325	Cys	Asp	Ala	Phe	Asn 330		Pro	Leu	Ile	Thr 335	
Val	Asp	Val	Pro 340	Gly	Phe	Leu	Pro	_	Thr		Gln	Glu	Туг 350	Gly	Gly
Ile	Ile	Arg 355	His		Ala			Leu			Phe		Glu	Ala	Thr
Val	Pro 370	Lys	Val	Thr	Val			_	-		Туг 380	Gly	Gly	Ala	Tyr
Asp 385	Val		Ser		Lys 390		Leu		Gly	Asp 395	Thr	Asn	Tyr	Ala	
Pro	Thr	Ala	Glu	Ile 405	Ala	Val	Met	Gly	Ala 410	Lys	Gly	Ala	Val	Glu 415	Ile
Ile	Phe	Lys	Gly 420	His	Glu	Asn	Val	Glu 425	Ala	Ala	Gln	Ala	Glu 430	Tyr	Ile
Glu	Lys	Phe 435	Ala	Asn	Pro		Pro 440	Ala	Ala	Val	Arg	Gly 445	Phe	Val	Asp
Asp	Ile 450	Ile			Ser		Thr		Ala		Ile 460		Суѕ	Asp	Leu
Asp 465	Val	Leu	Ala		Lys 470	Lys	Val	Gln		Pro 475	Trp	Arg	Lys		Ala 480

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Asn Ile Pro Leu
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<220>
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Leu Xaa Glu Leu Glu Arg Tyr Val Thr Ser Cys Leu Arg Lys Lys Arg
Lys Pro Gln Ala Glu Lys Val Asp Val Ile Ala Gly Ser Ser Lys Met
             20
                                25
                                                    30
Lys Gly Phe Ser Ser Ser Glu Ser Glu Ser Ser Glu Ser Ser
Ser Asp Ser Glu Xaa Xaa Glu Thr Gly Pro Ala
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<212> PRT
<213> Homo sapiens
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Ser Gly Tyr Lys Thr Ile Ser Ala Met Gln Thr Ile Lys Cys Val Val

Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu Leu Ile Ser Tyr Thr

10

5

<400> 1142

			20					25					30		
Thr	Asn	Lys 35	Phe	Pro	ser	Glu	туг 40	Val	Pro	Thr	Val	Phe 45	Asp	Asn	Туг
Ala	Val	Thr	Val	Met	Ile	Gly 55	Gly	Glu	Pro	Tyr	Thr 60	Leu	Gly	Leu	Phe
Asp 65	Thr	Ala	Gly	Gln	Glu 70	Asp	Tyr	Asp	Arg	Leu 75	Arg	Pro	Leu	Ser	Туг 80
Pro	Gln	Thr	Asp	Val 85	Phe	Leu	Val	Cys	Phe 90	Ser	Val	Val	Ser	Pro 95	Ser
Ser	Phe	Glu	Asn 100	Val	Lys	Glu	Lys	Trp 105	Val	Pro	Glu	Ile	Thr 110	His	His
Cys	Pro	Lys 115	Thr	Pro	Phe	Leu	Leu 120	Val	Gly	Thr	Gln	Ile 125	Asp	Leu	Arg
Asp	Asp 130	Pro	Ser	Thr	Ile		Lys	Leu	Ala	Lys	Asn 140	Lys	Gln	Lys	Pro
Ile 145	Thr	Pro	Glu	Thr	Ala 150	Glu	Lys	Leu	Ala	Arg 155	Asp	Leu	Lys	Ala	Val
Lys	Tyr	Vaļ	Glu	Cys 165	Ser	Ala	Leu	Thr	Gln 170		Gly	Leu	Lys	Asn 175	Val
Phe	Asp	Glu	Ala 180			Ala	Ala	Leu 185	Glu	Pro	Pro	Glu	Pro 190	Lys	Lys
Ser	Arg	Arg 195	Cys	Val	Leu	Leu				,					
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	.> 17														
	> PF	-													
			apie	ens	•										

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Ser Ser Ala Ala Lys His Ser Val Asp Gly Glu Ser Leu Ser Ser Glu
                    .55
Leu Gln Gln Leu Gly Leu Pro Lys Glu His Ala Ala Ser Leu Cys Arg
                  70
                                  75
Cys Tyr Glu Glu Lys Gln Ser Pro Leu Gln Lys His Leu Arg Val Cys
      85
Ser Leu Arg Met Asn Arg Leu Ala Gly Val Gly Trp Arg Val Asp Tyr
         100 105 110
Thr Leu Ser Ser Ser Leu Leu Gln Ser Val Glu Glu Pro Met Val His
 115
                      120
                                 125
Leu Arg Leu Glu Val Ala Ala Pro Gly Thr Pro Ala Gln Pro Val
 130
Ala Met Ser Leu Ser Ala Asp Lys Phe Gln Val Leu Leu Ala Glu Leu
      150 155 160
145
Lys Gln Ala Gln Thr Leu Met Ser Ser Leu Gly
           165
                            170 . . .
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Gln Trp Arg Gln Gly Val Gln Gly Arg Ser Ala Ser Gly Thr Ser Thr
                             10
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Cys	Arg	Val	Ala 20		Xaa	Gly	Gln	Asp 25		Pro	Ala	Ala	Ser 30		Gly
Val	Asn	Leu 35		Asn	Xaa	Phe	Xaa 40	Pro	Pro	Leu	Leu	Leu 45	Ala	Pro	Val
Pro	Thr 50		Val	Ala	Pro	Ser 55	Leu		Ser				Leu	Ser	His
Pro 65			Gln		Gly 70	Pro	Val	Thr	Gly		Ala	-	Glu	Gly	His 80
Arg	Cys	Ala	Ser				Val					Glu	Leu		Thr
Arg	Pro	Ala			Pro		Ala		Ala			Ala	Ala 110	Pro	Ala
		Arg 115					Ala 120		Pro		Leu			Tyr	Lys
Ile					Met		Ala		Leu			Ala	Ala	Thr	Ala
					Gln 150				٠.			٠			
<210)> 1]	145	.				-			•					
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<213	3> 'Ho	omo :	sapie	ens								_			
<400)> 11	145	.												•
Ala 1	Asp	Île	Ala	Gly 5	Val	Leu	Ala	Ile	Arg 10	Pro	Asp	Glu	Leu	Arg 15	Phe
Arg	Tyr						Trp								Ile
Arg	Tyr	Ser 35	Gln	Ile	Cys	Ala	Lys 40	Ala	Val	Arg	Asp	Ala 45	Leu	Lys	Thr
Glu	Phe 50	Lys	Ala	Asn	Ala	Glu 55	Lys	Thr	Ser	Gly	Ser 60	Asn	Val	Lys	Ile
Val 65	Lys	Val	Lys	Lys	Glu 70						*	•			

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<210> 1146
<211> 166
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1146
Leu His Ala Asn Gln Val Ile His Arg Asp Ile Lys Ser Asp Asn Val
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Leu Leu Gly Met Glu Gly Ser Val Lys Leu Thr Asp Phe Gly Phe Cys
                            25
                                               30
Ala Gln Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr
                          40
Pro Tyr Trp Met Ala Pro Glu Xaa Val Thr Arg Lys Ala Tyr Gly Pro
                     55
Lys Val Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Val Glu
                  70
Gly Glu Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu
                                 90
Ile Ala Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser
       100
Pro Ile Phe Arg Asp Phe Leu Asn Arg Cys Leu Glu Met Asp Val Glu
       115
                         120
Lys Arg Gly Ser Ala Lys Glu Leu Leu Gln His Pro Phe Leu Lys Leu
 130 135 140
Ala Lys Pro Leu Ser Ser Leu Thr Pro Leu Ile Met Ala Ala Lys Glu
145 150
                              155
Ala Met Lys Ser Asn Arg
 . . . .
<210> 1147
```

<211> 420 <212> PRT

<213> Homo sapiens

<22															
	1> s							•							
<22	2> (203)													
<22	3> X	aa e	qual	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
-					-				•						•
	0> 1		•												
Cys	Pro	Pro	Phe	Ser	Val	Arg	Val	Pro	Pro	Trp	Ala	Gly	Leu	Ala	Leu
11.1				. 5	٠.	Ť.,			10			• •	•	15	
													•		
Leu	Pro	Ser	Pro	Ser	Leu	Met	Ala	Leu	Leu	Arg	Arg	Pro	Thr	Val	Ser
	-		20			2		· 25				-	30	•	
	•														
Ser	Asp	Leu	Glu	Asn	Ile	Asp	Thr	Gly	Val	Asn	Ser	Lys	Val	Lys	Ser
		35	<u>:</u>				40	-				45			
									1.5						
His	Val	Thr	Ile	Arg	Arg	Thr	Val	Leu	Glu	Glu	Ilė	Gly	Asn	Arg	Val
	. 50					. 55		·, :			60	٠.,			
Thr	Thr	Arg	Ala	Ala	Gln	Val	Ala	Lys	Lys	Ala	Gln	Asn	Thr	Lys	Val
65					70				٠.	.75				_	80
								÷							
Pro	Val	Gln	Pro	Thr	Lvs	Thr	Thr	Asn	Val	Asn	Lys	Gln	Leu	Lys	Pro
					-1-						-			95	
					•										
Thr	Ala	Ser	Val	Lvs	Pro	Val	Gln	Met	Glu	Lvs	Leu	Ala	Pro	Lvs	Glv
			100	-,,				105		-,-			110	-1-	1
•			100			•			-						
Pro	Ser	Pro	Thr	Pro	Glu	Asn	Val	Ser	Met	T.vs	Glu	Glu	Asn	Leu	Cvs
110	561	115	1111	110	GIU	nsp	120	001		 75		125		204	0,0
		113					120								
Gla	Δla	Dhe	Ser	Acn	Δla	T.011	T.611	Cve	T.vg	Tle	Glu	Asn	Tle	Asn	Asn
GIN	130	FIIC	261	vaħ	. VIG	135	Deu	cys	Lys	116	140	nop	110	пор	A311
	130					133					140				
Glu	Acn	Trn	Glu-	Acn	Dro	Gln	Len	Cve	Sar	Aen	Tur	Va 1	T.ve	Agn	Tle
145	vaħ	IIP.	GIU	AŞII	150	GIII	Ten	Cys	267	155	-7-	141	<i>-</i> 13	лор	160
143					150					133					100
m	C1-	m	Leu	N	C1 =	T 0	cai.	17-1	T 011	Gl n	50=	Tla	200	B=0	uie
TYL	GIII	Tyt	rea	_	GIII	ren	GIU	vai	170	GIII	Set	116	ASII	175	птэ
				165					170				•	1/3	
Dh.		.	G1	•		-1 -		G1		Mah	R		T10	T 011	17 - 1
Pue	Leu	Asp	Gly	Arg	Asp	ile	ASN		Arg	met	Arg	ALA		rea	vai
			180					185					190		
_	_	_			-		_	_							
Asp	Trp		Val	Gln	Val	His		Lys	Pne	хаа	Leu		GTU	GLU	rnr
•		195					200					205			
											_				_
Leu			Cys	Val	Gly		Met	Asp	Arg	Phe		Gln	Val	Gln	Pro
	210					215					220				
_								_					_	_	_
	Ser	Arg	Lys	Lys		Gln	Leu	Val	Gly		Thr	Ala	Leu	Leu	
225					230					235			•		240

Ala Ser Lys Tyr Glu Glu Met Phe Ser Pro Asn Ile Glu Asp Phe Val 250 Tyr Ile Thr Asp Asn Ala Tyr Thr Ser Ser Gln Ile Arg Glu Met Glu 265 Thr Leu Ile Leu Lys Glu Leu Lys Phe Glu Leu Gly Arg Pro Leu Pro 280 285. Leu His Phe Leu Arg Arg Ala Ser Lys Ala Gly Glu Val Asp Val Glu 295 Gln His Thr Leu Ala Lys Tyr Leu Met Glu Leu Thr Leu Ile Asp Tyr 310⁻ Asp Met Val His Tyr His Pro Ser Lys Val Ala Ala Ala Ala Ser Cys 325 330 Leu Ser Gln Lys Val Leu Gly Gln Gly Lys Trp Asn Leu Lys Gln Gln 340 345 Tyr Tyr Thr Gly Tyr Thr Glu Asn Glu Val Leu Glu Val Met Gln His 360 Met Ala Lys Asn Val Val Lys Val Asn Glu Asn Leu Thr Lys Phe Ile-375 Ala Ile Lys Asn Lys Tyr Ala Ser Ser Lys Leu Leu Lys Ile Ser Met. 385 390. Ile Pro Gln Leu Asn Ser Lys Ala Val Lys Asp Leu Ala Ser Pro Leu 410

Ile Gly Arg Ser 420

<210> 1148 <211> 249 <212> PRT <213> Homo sapiens

<220>
<221> SITE
<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148 Gln Ser Asn Ala Val Trp Leu Leu Gly His Leu His Leu Ser Thr Leu

1				5					10				•	15	
Ser	Ser	Ser	Gln 20	Ser	Arg	Ala	Ser	Val 25	Pro	Thr	Asp	туг	Ser 30	туг	Leu
Pro	Glu	Ser 35	Ser	Phe	Ile	Gly	Ala 40	Ala	Ile	Gly	Phe	Phe 45	Ile	Thr	Gly
Gly	Lys 50	Lys	Gly	Pro	Glu	55	Val		Pro	Ser	Leu 60	Leu	Lys	Val	Val
Met 65	Lys	Pro	Ile	Ala	Thr 70		•		Ser	Tyr 75	Gln	Tyr	Pro	Pro	Val 80
Asn	Trp	Ala	Ala	Leu 85	Leu	Ser	Pro	Leu	Met 90	Arg	Leu	Asn		Gly 95	Glu
Glu	Ile	Gln	Gln 100	Leu	Cys	Leu	Glu	Ile 105	Met	Val	Thṛ	Gln	Ala 110	Gln	Ser
Ser	Gln	Asn 115	Ala	Ala	Ala	Leu	Leu 120	Gly	Leu	Trp	Val	Thr 125	Pro	Pro	Leu
Ile	His 130	Ser	Leu	Ser	Leu	Asn 135	Thr	Lys	:Arg	Tyr	Leu 140	Leu	Ile	Ser	Ala
Pro 145	Leu	Trp	Ile	Lys	His 150	Ile	Ser	Asp	Glu	Gln 155	Ile	Leu	Gly	Phe	Val 160
Glu	Asn	Leu	Met	Val 165	Ala	Val	Phe	Lys	Ala 170	Ala	Ser	Pro	Leu	Gly 175	
Pro	Glu	Leu	Cys 180	Pro	Ser	Ala	Leu	His 185	Gly	Leu	Ser	Gln	Ala 190	Met	Lys .
Leu	Pro	Ser 195	Pro	Ala	His	His	Leu 200	Trp	Ser	Leu	Leu	Ser 205	Glu	Ala	Thr
Gly	Lys 210	Ile		Asp		Leu 215	Pro	Asn	Lys	Ile	Arg 220	Arg	Lys	Asp	Leu
Glu 225	Leu	Tyr	Ile	Ser	Ile 230	Ala	Lys	Cys	Leu	Leu 235	Glu	Met	Thr	Asp	Asp 240
Asp	Ala	Asn	Xaa	Asp 245	Arg	Pro	Gly	Tyr							

<210> 1149 <211> 239 <212> PRT <213> Homo sapiens

<400> 1149

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr 1 5 10 15

Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu 20 25 30

Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu 35 40 45

His Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu
50 55 60

Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr 65 70 75 80

Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp \$85\$ 90 95

Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile 100 105 110

Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys 115 120 125

Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly 130 135 140

Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg 145 150 155 160

Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val
165 170 175

Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys 180 185 190

. Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Ala Leu Leu Gly 195 200 205

Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser 210 215 220

Lys Lys Lys Leu Lys Glu Glu Lys Arg Asn Lys Ser Lys Lys Lys 235

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<210> 1150
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<212> PRT
<213> Homo sapiens
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<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
Ala Glu Xaa Gly Lys Thr Glu Trp Leu Phe Gly Met Asp Glu Gly Arg
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                                 10
Lys Gln Leu Ala Ala Ser Ala Gly Phe Arg Arg Leu Ile Thr Val Ala
           20
                              25
Leu His Arg Gly Gln Gln Tyr Glu Ser Met Asp His Ile Gln Ala Glu
             40
Leu Ser Ala Arg Val Met Glu Leu Ala Pro Ala Gly Met Pro Thr Gln
Gln Gln Val Pro Phe Leu Ser Val Gly Gly Asp Ile Gly Val Arg Thr
Val Gln His Gln Asp Cys Ser Pro Leu Ser Gly Asp Tyr Val Ile Glu
           85
Asp Val Gln Gly Asp Asp Lys Arg Tyr Phe Arg Arg Leu Ile Phe Leu
          100 ... 105
Ser Asn Arg Asn Val Val Gln Ser Glu Ala Arg Leu Leu Lys Asp Val
     115 120
Ser His Lys Ala Gln Lys Lys Arg Lys Lys Asp Arg Lys Lys Gln Arg
                      135
Pro Ala Asp Ala Glu Asp Leu Pro Ala Ala Pro Gly Gln Ser Ile Asp
                 150 155
Lys Ser Tyr Leu Cys Cys Glu His His Lys Ala Met Ile Ala Gly Leu
                                170
             1,65
Ala Leu Leu Arg Asn Pro Glu Leu Leu Glu Ile Pro Leu Ala Leu
                             185
Leu Val Val Gly Leu Gly Gly Ser Leu Pro Leu Phe Val His Asp
                          200
```

His Phe Pro Lys Ser Cys Ile Asp Ala Val Glu Ile Asp Pro Ser Met

1160

	210					215					220				
Leu 225	Glu	Val	Ala	Thr	Gln 230	Trp	Phe	Gly	Phe	Ser 235	Gln	Ser	Asp	Arg	Met 240
Lys	Val	His	Ile	Ala 245	Asp	Gly	Leu	Asp	Туг 250	Ile	Ala	Ser	Leu	Ala 255	Gly
Gly	Gly	Glu	Ala 260	Arg	Pro	Cys	Tyr	Asp 265	Val	Ile	Met	Phe	Asp 270	Val-	Asp
Ser	Lys	Asp 275	Pro	Thr	Leu	Gly	Met 280	Ser	Cys	Pro	Pro	Pro 285	Ala	Phe	Val
Glu	Gln 290	Ser	Phe	Leu	Gln ⁻	Lys 295	Val	Lys	Ser	Ile	Leu 300	Thr	Pro	Glu	Gly
Val 305	Phe	Ile	Leu	Asn	Leu 310	Val	Cys	Arg	Asp	Leu 315	Gly	Leu	Lys	Asp	Ser 320
Val	Leu	Ala	Gly	Leu 325	Lys:	Ala	Väl	Phe	Pro 330	Leu	Leu	Tyr	Val	Arg 335	Arg
Ile	Glu	Gly	Glu 340	Val	Asn	Glu-	Ile	Leu 345	Phe	Cys	Gln	Leu	His 350	Pro	Glu
Gln	Lys-	Leu 355	Ala	Thr	Pro	Glu	Leu 360	Leu	Glu	Thr	Ala	Gln 365	Ala	Leu	Glu
Arg	Thr 370	Leu	Arg	Lys	Pro	Gly 375	Arg	Gly	Trp	Asp	Asp 380	Thr	Tyr	Val	Leu
Ser 385	Asp	Met	Leu	Lys	Thr 390	Val	Lys	Ile	Val				-		
<210 <211 <212	.> 11	.1											•		
			apie	ns											
<400															
Val 1	Asn	Val	Asn	Asn 5	Pro	Ser	Leu	Cys	His 10	Ser	Ser	His	Leu	Va1 15	Asp
Leu	Gly	Ser	Gly 20	Ser	Val	Glu	Phe	Cys . 25	Ala	Trp	Glu	Trp	Ser 30	Trp	Arg

Glu Trp Gly Leu Cys Thr Ala Ala Thr Ser Pro Arg Ser Ser His Leu

Pro Ala Pro Arg Pro Gly Cys Met Ala Ala Pro Val Cys Val Gln Arg Ser Val Ser His Pro Leu His Leu Leu Ser Gly Gly Leu Gly Ser Pro . 70 Thr Cys Cys Gln Asp Leu Gly Ala Ile Lys Tyr Ser Gly Phe Val Lys 85 100 105 <210> 1152 <211> 172 <212> PRT <213> Homo sapiens Leu Gly Asp Thr Ile Glu Gly Arg Leu Gln Val Pro Val Arg Asn Ser 5 10 Arg Val Asp Pro Arg Val Arg Ala Arg Gly Ala Asp Arg Met Gly Lys 25 Cys Arg Gly Leu Arg Thr Ala Arg Lys Leu Arg Ser His Arg Arg Asp Gln Lys Trp His Asp Lys Gln Tyr Lys Lys Ala His Leu Gly Thr Ala Leu Lys Ala Asn Pro Phe Gly Gly Ala Ser His Ala Lys Gly Ile Val Leu Glu Lys Val Gly Val Glu Ala Lys Gln Pro Asn Ser Ala Ile Arg Lys Cys Val Arg Val Gln Leu Ile Lys Asn Gly Lys Lys Ile Thr Ala 100 105 Phe Val Pro Asn Asp Gly Cys Leu Asn Phe Ile Glu Glu Asn Asp Glu 120 Val Leu Val Ala Gly Phe Gly Arg Lys Gly His Ala Val Gly Asp Ile

Pro Gly Val Arg Phe Lys Val Val Lys Val Ala Asn Val Ser Leu Leu

150

155

160

Ala Leu Tyr Lys Gly Lys Lys Glu Arg Pro Arg Ser 165 170

<210> 1153

<211> 197

<212> PRT

<213> Homo sapiens

<400> 1153

Tyr Trp Cys Glu Gln Cys Asp Val Gln Phe Ser Ser Ser Ser Glu Leu

1 5 10 15

Tyr Leu His Phe Gln Glu His Ser Cys Asp Glu Gln Tyr Leu Cys Gln 20 25 30

Phe Cys Glu His Glu Thr Asn Asp Pro Glu Asp Leu His Ser His Val
35 40 45

Val Asn Glu His Ala Cys Lys Leu Ile Glu Leu Ser Asp Lys Tyr Asn 50 55 60

Asn Gly Glu His Gly Gln Tyr Ser Leu Leu Ser Lys Ile Thr Phe Asp 65 70 75 80

Lys Cys Lys Asn Phe Phe Val Cys Gln Val Cys Gly Phe Arg Ser Arg 85 90 95

Leu His Thr Asn Val Asn Arg His Val Ala Ile Glu His Thr Lys Ile 100 105 110

Phe Pro His Val Cys Asp Asp Cys Gly Lys Gly Phe Ser Ser Met Leu 115 120 125

Glu Tyr Cys Lys His Leu Asn Ser His Leu Ser Glu Gly Ile Tyr Leu 130 135 140

Cys Gln Tyr Cys Glu Tyr Ser Thr Gly Gln Ile Glu Asp Leu Lys Ile 145 150 155 160

His Leu Asp Phe Lys His Ser Ala Asp Leu Pro His Lys Cys Ser Asp 165 170 175

Cys Leu Met Arg Phe Gly Asn Glu Arg Glu Leu Ile Ser His Leu Pro 180 185 190

Val His Glu Thr Thr 195

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<210> 1154
<211> 156
<212> PRT
<213> Homo sapiens
<400> 1154
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                       10
20 25
Ser Ser Ser Ser Asp Ser Glu Gly Ser Ser Leu Pro Val Gln Pro Glu
                  40
Val Ala Leu Lys Arg Val Pro Ser Pro Thr Pro Ala Pro Lys Glu Ala
               55
Val Arg Glu Gly Arg Pro Pro Glu Pro Thr Pro Ala Lys Arg Lys Arg
65
            70
                         75
90
100 105 110
Ser Ser Ser Ser Ser Ser Ser Ser Ser Pro Ser Pro Ala Lys
    115
               120
Pro Gly Pro Gln Ala Cys Pro Asn Leu Gln Ala Pro Arg Ser His Pro
        135
Leu Ala Ser Gly Gly Pro Ala Ala Pro Gly Ser Gln
            150
<210> 1155
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<220>
<221> SITE
<222> (73)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

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<222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
Pro Glu Ala Pro Arg Gly Val Val Thr Cys Leu Arg Ala Leu Leu Ser
His Gln His Gln Thr Arg Pro His Arg Val Pro Gly Thr Met Phe Gly
                               25
Lys Arg Lys Lys Arg Val Glu Ile Ser Ala Pro Ser Asn Phe Glu His
         35
                            40
Arg Val His Thr Gly Phe Asp Gln His Glu Gln Lys Phe Thr Gly Leu
Pro Arg Gln Trp Gln Ser Leu Ile Xaa Glu Ser Ala Arg Arg Pro Lys
Pro Leu Val Asp Pro Ala Cys Ile Thr Ser Ile Gln Pro Gly Ala Pro
                85
Lys Thr Ile Val Arg Gly Ser Lys Xaa Ala Lys Asp Gly Ala Leu Thr
                        · 105
                 in the transfer of the second
Leu Leu Leu Asp Glu Phe Glu Asn Met Xaa Val Thr Arg
                 120 125
<210> 1156
<211> 202
<212> PRT
<213> Homo sapiens
<400> 1156
Arg Pro Thr Arg Pro Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln
                       . .
Ala Leu Leu Asp Gly Arg Gly Leu Cys Val Asn Ala Ser Ala Val Ser
Arg Leu Arg Ala Tyr Leu Leu Pro Ala Pro Pro Ala Pro Gly Asn Ala
    . 35
                           40
                                              45
```

Ser Glu Ser Glu Glu Asp Arg Ser Ala Gly Ser Val Glu Ser Pro Ser

	50					55					60				
Val 65	Ser	Ser	Thr	His	Arg 70	Val	Ser	Asp	Pro	Lys 75	Phe	His	Pro	Leu	His 80
Ser	Lys	Ile	Ile	Ile 85	Ile	Lys	Lys	Gly	His 90	Ala	Lys	Asp	Ser	Gln . 95	Arg
Tyr	Lys	Val	Asp 100	Tyr	Glu	Ser	Gln	Ser 105	Thr	Asp	Thr	Gln	Asn 110	Phe	Ser
Ser	Glu	Ser 115	Lys	Arg	Glu	Thr	Glu 120	Tyr	Gly	Pro	Cys	Arg 125	Arg	Glu	Met
Glu	Asp 130	Thr	Leu	Asn	His	Leu 135	Lys	Phe	Leu	Asn	Val 140	Leu	Ser	Pro	Arg
Gly 145	Val	His	Ile	Pro	Asn 150	Cys	Asp	Lys	Lys	Gly 155	Phe	Tyr	Lys	Lys	Lys 160
Gln	Cys	Arg	Pro	Ser 165	Lys	Gly	Arg	Lys	Arg 170	Gly	Phe	Cys	Trp	Cys 175	Val
Asp	Lys	Tyr	Gly 180	Gln	Pro	Leu	Pro	Gly 185	Tyr	Thr	Thr	Lys	Gly 190	Lys	Glu
Asp	Val	His 195	Сув	Tyr	Ser	Met	Gln 200	Ser	Lys						
)> 11	-													
	!> 26 !> PF														
			sapie	ens											
<400)> 11	57						•							
Arg 1	Arg	Cys	Cys	His 5	Ser	Ala	Thr	Met	Phe 10	Glu	Ala	Arg	Leu	Val 15	Gln
Gly	Ser	Ile	Leu 20	Lys	Lys	Val	Leu	Glu 25	Ala	Leu	Lys	Asp	Leu 30	Ile	Asn

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu

70

40

Thr	Ser	Met	. Ser	Lys 85	Ile	Leu	Lys	Cys	90		/ Asn	Glu	Asp	Ile 95	
Thr	Leu	Arg	Ala 100		Asp	Asn	Ala	Asp 105		Leu	Ala	Leu	Val	Phe	Gl
Ala	Pro	Asn 115	Gln	Glù	Lys	Val	Ser 120		Туг	Glu	Met	Lys 125	Leu	Met	Asi
Leu	Asp 130	Val	Glů	Glñ	Leu	Gly 135		Prö	Glū	Gln	Glu 140		Ser	Cys	Val
Val 145	Lys	Met	Pro	Ser	Gly 150	Glu	Phe	Ala	Ärg	Ile 155		Arg	Asp	Leu	Ser 160
His	Ile	Gly	Asp	Ala 165	Val	Va1	Ilė	Ser	Cys 170	Ala	Lys	Āsp	Gly	Val 175	-
Phe	Ser	Ala	Ser 180	Gly	Glu	Leu	Gly	Asn 185	Gly	Asn	Ile	Lys	Leu 190	Ser.	Gln
Thr	Ser	Àsn 195	Val	Asp	Lys	Glů	Glu 200	Glu	Ala	Val	Thr	11e 205	Glu	Met	Asn
Glu	Pro 210	Val	Gln	Leu	Thr	Phe 215	Ala	Leu	Arg	Tyr	Leu 220	Asñ	Phe	Phe	Thr
Lys 225	Ala	Thr	Pro	Leu	Ser 230	Ser	Thr	Val	Thr	Leu 235	Ser	Met	Ser	Äla	Asp 240
Val	Pro	Leu	Val	Val 245	Ğlu	Tyr	Lys	Ilė	Ala 250	Asp	Meť	Gly	His	Leu 255	Lys
Tyr	Tyr	Leu	Ala 260	Prö	Lÿs	Ile	Glu	Asp 265	Glu	Glu	Gly	Ser			
٠	٠			-		-								-	
<211	> 11 > 63 > PR	9	٠									Ÿ			
<213	> Ho	mo s	apie	ns											
<220	>		y <u>=</u> 1			-		-			•				
	> si > (1)														_
			uals	any	of ·		natu						ino a		
<220	> .												3 ·		
	> SI	TE									1			•	

	2> (3> X	•	gual	s an	y of	the	nati	ural	ly o	ccur	ring	L-a	mino	aci	ds
			•	•	•				-		_				
	0> 1								_	_			_		
Met 1	Asp	Glu	Met	Ala 5	Thr	Thr	Gln	Ile	Ser 10	Lys	Asp	Glu	Leu	Asp 15	Glu
Leú	Lys	Glu	Ala 20	Phe	Ala	Lys	Val	Asp 25	Leu	Asn	Ser	Asn	Gly 30	Phe	Ile
Cys	Asp	Tyr 35	Glu	Leu	His	Glu	Leu 40	Phe	Lys	Glu	Ala	Asn 45	Met	Pro	Leu
Pro	Gly 50	туг	Lys	Val	Arg	Glu 55	Ile	Ile	Gln	Lys	Leu 60	Met	Leu	Asp	Gly
Asp 65	Arg	Asn	Lys	Asp	Gly 70	Lys	Ile	Ser	Phe	Asp 75	Glu	Phe	Val	Tyr	Ile 80
Phe	Gln	Glu	Val	Lys 85	Ser	Ser	Asp	Ile	.Ala 90	Lys	Thr	Phe	Arg	Lys 95	Ala
Ile	Asn	Arg	Lys 100	Glu	Gly	Ile	Cys	Ala 105	Leu	Gly	Gly	Thr	Ser 110	Glu	Leu
Ser	Ser	Glu 115	Gly	Thr	Gln	His	Ser 120	Tyr	Ser	Glu	Glu	Glu 125	Lys	Tyr :	Ala
Xaa	Val 130	Asn	Trp	Ile	Asn	Lys 135	Ala	Leu	Glu	Asn	Asp 140	Pro	Asp	Cys	Arg
His 145	Val	Ile	Pro	Met	Xaa 150	Pro	Asn	Thr	Asp	Asp 155	Leu	Phe	Lys	Ala	Val 160
Gly	Asp	Gly	Ile	Val 165	Leu	Cys	Lys	Met	11e 170	Asn	Leu	Ser	Val	Pro 175	Asp
Thr	Ile	Asp	Glu 180	Arg	Ala	Ile	Asn	Lys 185	Lys	Lys	Leu	Thr	Pro 190	Phe	Ile
Ile	Gln	Glu 195		Leu	Asn	Leu	Ala 200	Leu	Asn	Ser	Ala	Ser 205	Ala	Ile	Gly
Cys	His 210	Val	Val	Asn	Ile	Gly 215		Glu	Asp	Leu	Arg 220	Ala	Gly	Lys	Pro
His 225	Leu	Val	Leu	Gly	Leu 230	Leu	Trp	Gln	Ile	Ile 235	Lys	Ile	Gly	Leu	Phe 240
Ala	Asp	Ile	Glu	Leu 245	Ser	Arg	Asn	Glu	Ala 250	Leu	Ala	Ala	Leu	Leu 255	Arg

Asp	Gly	Glu	Thr 260		Glu	Glu		Met 265		Leu	Ser	Pro	Glu 270		Leu
Leu	Leu	275		Ala	Asn	Phe	His 280		ı Glu		Ser		_	Gln	Lys
Ile	290						Ile							Asn	Ser
Val 305		Asp	Ser												Pro 320
Lys	Gly		Lys	Glu 325	Gly	Glu	Pro	Arg	11e 330	Asp	Ile	Asn	Met	Ser : 335	Gly
Phe	Asn	Glu	Thr 3'40		Asp										Gln
-		355	-	, -			360					365			Val
	370				٠.	375				-	380			٠	
385	*				390		-			395		•			Thr 400
				405				-	410			•		415	
			420	:				425					430		
٠.,		435	-	-		••	Gln 440		,			445	_		
	450					455	Lys	٠.		•	460				
465		-	٠,		470		Cys			475	`	:			480
•			•	485			Val		490		- ,			495.	
~-			500				Leu	505			"		510	•. ••	
							Glu 520						Gln	Lys	Ala

Asn Asp Asp Ile Ile Val Asn Trp Val Asn Arg Thr Leu Ser Glu Ala Gly Lys Ser Thr Ser Ile Gln Ser Phe Lys Asp Lys Thr Ile Ser Ser 545 550 555 Ser Leu Ala Val Val Asp Leu Ile Asp Ala Ile Gln Pro Gly Cys Ile 570 Asn Tyr Asp Leu Val Lys Ser Gly Asn Leu Thr Glu Asp Asp Lys His 585 Asn Asn Ala Lys Tyr Ala Val Ser Met Ala Arg Arg Ile Gly Ala Arg 595 . 600 Val Tyr Ala Leu Pro Glu Asp Leu Val Glu Val Lys Pro Lys Met Val 615 620. Met Thr Val Phe Ala Cys Leu Met Gly Arg Gly Met Lys Arg Val 630 <210> 1159

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1159

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Val Tyr Ile Leu Asp Thr Glu Arg Cys Tyr Ala Ser Val Ile Ile Pro 40

Arg Leu Glu Ile Gly Arg Ala Lys Lys Val Leu Leu Phe Phe Leu 55

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<211> 207

<212> PRT

<213> Homo sapiens

<400> 1160

Glu Val Tyr Gly Gly Ser Leu Asp Lys Glu Phe Asp Glu Ser Ser Pro

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Lys	Gln	Pro	Thr 20			Tyr		Ser 25		Lys	Ala		Ala 30		Cys
Phe	Val	Gln 35		Tyr	Trp		Gln . 40		Lys	Phe	Pro	Val 45	Val	Ile	Thr
Arg		Ser						His	Gln	Tyr	Pro 60	Glu	Lys	Val	Ile
Pro 65	Lys	Phe	Ile					His		Arg 75			-	Ile	
Gly	Ser	Gly	Leu											Val 95	
Glu	Ala	Phe	Leu 100		Val	Leu	Lys	Lys 105		Lys		Gly		Ile	_
Asn	Ile	Gly 115	Thr									Leu 125		Lys	Glu
Leu	11e 130	Gln	Leu	Ile	Lys		Thr			Glu			Met	Glu	Asn
Trp 145	Val	Asp	Tyr	Val	Asn 150	Asp	Arg		Thr		Asp	Met	Arg	Tyr	Pro 160
Met	Lys	Ser	Glu									Pro		Val 175	Pro
Trp	Lys	Glu 	Gly 180		Lys	Lys	Thr	Ile 185		Trp	Tyr	Arg	Glu 190	Asn	Phe
His	Asn	Trp 195		Asn	Val		Lys 200	Ala	Leu	Glu		Phe 205		Val	,
<210					-			-							
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<220 <221 <222	> SI > (8	TE 15)									•		•		
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<22	1> S	ITE													
<22	2> (844)													
<22	3> x	aa e	qual	s an	y of	the	nat	ural	ly c	ccur	ring	L-a	mino	aci	ds
< 40	0> 1	161										•			
			Leu	Glv	Val	Thr	Met	Ala	Thr	Glo	Glu	Phe	Tle	Tle	Arg
1		Uly	DCG	_		1	1.00		10		914	riic	116		
_				5					10	,				15	
	_	_	_		_		•			_	_				
Ile	Pro	Pro	Tyr	His	Tyr	Ile	His	Val	Leu	Asp	Gln	Asn	Ser	Asn	Val
		•	20					25					30		
Ser	Arg	Val	Glu	Val	Gly	Pro	Lys	Thr	Tyr	Ile	Arg	Gln	Asp	Asn	Glu
		35					40					45			
Ara	Va l	Leu	Phe	Ala	Pro	Met	Ara	Met	Val	Thr	Val	Pro	Pro	Ara	His
9	50					55			***			110	110	AL 9	1113
•	50					23					. 60				
_	_			_ _											
	Cys	Thr	Val	Ala	Asn	Pro	Val	Ser	Arg	Asp	Ala	Gln	Gly	Leu	Val
65					70					75					80
Leu	Phe	Asp	Val	Thr	Gly	Gln	Val	Arg	Leu	Arg	His	Ala	Asp	Leu	Glu
				85					90				_	95	
					•										
Tle	Ara	t.eu	Δla	Gln	Asn	Pro	Phe	Pro	T.eu	Tyr	Pro	Glv	Glu	Va 1	Leu
	• 9	200	100	·	1155			105	DCu	- 7 -	110	O.L.y		vai	neu
			100					103					110		
~ .	_	_			_	_				_		_			
Glu	Lys	-	Ile	Thr	Pro	Leu		Val	Val	Leu	Pro	Asn	Thr	Ala	Leu
		115					120			•		125			
													-		
His	Leu	Lys	Ala	Leu	Leu	Asp	Phe	Glu	Asp	Lys	Asp	Gly	Asp	Lys	Val
	130					135					140				
Val	Ala	Glv	Asp	Glu	Trp	Leu	Phe	Glu	Glv	Pro	Glv	Thr	Tur	Tle	Pro
145		,			150				,	155	0-7		-1-		
143				-	150					133					160
	_														_
Arg	Lys	Glu	Val		Val	Val	GIu	He		GIn	Ala	Thr	Ile		Arg
				165					170					175	•
Gln	Asn	Gln	Ala	Leu	Arg	Leu	Arg	Ala	Arg	Lys	Glu	Cys	Trp	Asp	Arg
			180					185					190		
Asp	Glv	Lvs	Glu	Ara	Val	Thr	Glv	Glu	Glu	Tro	Len	Val	Thr	Thr	Val
<u>F</u> -	1	195		9			200					205			
		193					200					203			
۵.		_	_	_							_	_	_		_
GIA		Tyr	Leu	Pro	Ala		Phe	Glu	Glu	Val		Asp	Leu	Val	Asp
	210					215					220				
Ala	Val	Ile	Leu	Thr	Glu	Lys	Thr	Ala	Leu	His	Leu	Arg	Ala	Arg	Arg
225					230					235				_	240
															-
Asn	Phe	Ara	Asp	Phe	Arg	Glv	Val	Ser	Arg	Ara	Thr	Glv	Glu	Glu	Tro
						2	_,		3	3		1			

				243	•				250	,				255	
Leu	Va]	. Thr		Glr	Asp	Thr	Glu	Ala 265		s Val	. Pro	Asp	Val 270		Glu
Glu	Val	. Leu 275		Val	. Val	Pro	1le 280		Thr	Leu	ı Gly	285	His	Asn	Туг
Cys	Val 290		Leu		Pro								Gln	Leu	Gly J
Gln 305		Arg	Val		Lys 310								Gln		
Glu	Gln	Leu											Ser		
Gln	Gly	Leu	Leu 340	Leu									Gly 350		Asp
Glu	Glu	Lys 355		Ser	His	Gln					Trp		Ile	Arg	Gly
Pro	Leu 370		Tyr	Val							Val 380		Glu 	Glu	Arg
Gln 385	Ala	Ile	Pro		Asp 390	Glu		Glu	Gly	11e 395		Val	Gln	Asp	Val 400
Lys	Thr	Gly	Lys	Val 405	Arg	Ala	Val	Ile	Gly 410	Ser	Thr	Tyr	Met	Leu 415	Thr
Gln	Asp	Glu	Val 420	Leu	Trp	Glu	Lys	Glu 425	Leu	Pro	Pro	Gly •	Val 430	Glu	Glu
Leu	Leu	Asn 435	Lys	Gly	Gln	Asp	Pro 440	Leu	Ala	Asp	Arg	Gly 445	Glu	Lys	Asp
Thr	Ala 450	Lys	Ser	Leu	Gln	Pro 455	Leu	Ala	Pro	Arg	Asn 460	Lys	Thr	Arg.	Val
Val 465	Ser	Tyr	Arg	Val	Pro 470	His	Asn	Ala	Aļļ	Val 475	Glņ	Val	Tyr	Asp	Туг 480
Arg	Glu	Lys	Arg	Ala 485	Arg .	Val	Val	Phe	Gly 490	Pro	Glu	Leu	Val	Ser 495	Leu
GŢĀ	Pro	Glu 	Glu 500	Gln	Phe	Thr	Val	Leu 505	Ser	Leu	Ser	Ala 	Gly 510	Arg	Pro
Lys	Arg	Pro	His	Ala	Arg	Arg	Ala	Leu	Cys	Leu	Leu	Leu	Gly	Pro	Asp

			515					520	ı				525	•		
	Phe	Phe 530		Asp	Val	Ile	Thr 535		Glu	Thr	: Ala	Asp 540		Ala	Arg	Leu
	Gln 545	Leu	Glņ	Leu	Ala	Tyr 550		Trp	His	Phe	6 Glu 555		Asn	Asp	Arg	Lys 560
	Asp	Pro	Gln	Glu	Thr 565	Ala	Lys	Leu	Phe	570		Pro	Asp	Phe	Val 575	_
	Asp	Ala	Cys	Lys 580	Ala	Ile	Ala	Ser	Arg 585		Arg	Gly	Ala	Val 590		Ser
	Val	Thr	Phe 595	Asp	Asp	Phe	His	Lys 600	Asn	Ser	Ala	Arg	Ile 605		Arg	Thr
	Ala	Val 610	Phe	Gly	Phe	Glu	Thr 615	Ser	Glu	Ala	Lys	Gly 620	Pro	Asp	Gly	Met
	Ala 625	Leu	Pro	Arg	Pro	Arg 630	_	Gln	Ala	Val	Phe 635	Pro	Gln	Asn	Gly	Leu 640
	Val	Val	Ser	Ser	Val 645	Asp	Val	Gln	Ser	Val 650		Pro	Val	Asp	Gln 655	Arg
	Thr	Arg	Asp	Ala 660	Leu	Gln	Arg	Ser	Val 665		Leu	Ala	Ile	Glu 670	Ile	Thr
	Thr	Asn	Ser 675	Gln	Glu	Ala	Ala	Ala 680	Lys	His	Glu	Ala	Gln 685	Arg	Leu	Glu
	Gln	Glu 690	Ala	Arg	Gly	Arg	Leu 695	Glu	Arg	Gln	Lys	11e 700	Leu •	Asp	Gln	Ser
	Glu 705	Ala	Glu	Lys	Ala	Arg 710	Lys	Glu	Leu	Leu	Glu 715	Leu	Glu	Ala	Leu	Ser 720
	Met	Ala	Val	Glu	Ser 725	Thr	Gly	Thr	Àla	Lys 730	Ala	Glu	Ala	Glu	Ser 735	Arg
•	Ala	Glu	Ala	Ala 740	Arg	Ile	Glu	Gly	Glu 745	Gly	Ser	Val	Leu	Gln 750	Ala	Lys
	Leu	Lys	Ala 755	Gln	Ala	Leu	Ala	Ile 760	Glu	Thr	Glu	Ala	Glu 765	Leu	Gln	Arg
1	Val	Gln 770	Lys	Val	Arg	Glu	Leu 775	Glu	Leu	Val	Tyr	Ala 780	Arg	Ala	Gln	Leu
	3111	Leu	Glu	Va 1	Ser	T.vs	Δla	Gle	Gle	T.e.11	م ۱ ۵ .	Glu	Val	Gla	Va 1	T.ve

785 800 790 795 Lys Phe Lys Gln Met Thr Glu Ala Ile Gly Pro Ser Thr Ile Xaa Asp 810 Leu Ala Val Ala Gly Pro Glu Met Gln Val Lys Leu Leu Gln Ser Leu 820 825 830 Gly Leu Lys Ser Thr Leu Ile Thr Asp Gly Phe Xaa Ser Ile Asn Phe 835 840 $(\mathcal{F}^{(1)}, \mathcal{F}^{(2)}, \mathcal{F$ <210> 1162 <211> 58 <212> PRT <213> Homo sapiens <220> <221> SITE <222>.(2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (28) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1162 Phe Xaa Val Gly Ile Val Asn Phe Ser Gln Pro Pro His Ala Ala Gly 10 15 Glu Cys Gly Cys Ser Ser Ser Glu Met Leu Thr Xaa Lys Arg Glu Val 20 Lys Gln Ser Arg Tyr Val Gln Pro Cys Leu Gln Asn Pro Ser Leu Ser 35 40 Ser Leu Ile Arg Ser Phe Leu Val Phe Tyr 50 55 <210> 1163 <211> 565 <212> PRT <213> Homo sapiens

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Gly	Gly	Phe	Asp 20	Ala	Ile	Met	Gln	Val 25	Ala	Val	Cys	Gly	Ser 30	Leu	Ile
Gly	Trp	Arg 35	Asn	Val	Thr	Arg	Leu 40	Leu	Val	Phe	Ser	Thr 45	Asp	Ala	Gly
Phe	His 50	Phe	Ala	Gly	Asp	Gly 55	Lys	Leu	Gly	Gly	Ile 60	Val	Leu	Pro	Asn
Asp 65	Gly	Gln	Cys	His	Leu 70	Glu	Asn	Asn	Met	Туг 75	Thr	Met	Ser	His	Tyr 80
Tyr	Asp	Tyr	Pro	Ser 85	Ile	Ala	His	Leu	Val 90	Gln	Lys	Leu	Ser	Glu 95	Asn
Asn	Ile	Gln	Thr 100	Ile	Phe	Ala	Val	Thr 105	Glu	Glu	Phe	Gln	Pro 110	Val	Tyr
Lys	Glu	Leu 115	Lys	Asn	Leu	Ile	Pro 120	Lys	Ser	Ala	Val	Gly 125	Thr	Leu	Ser
Ala	Asn 130	Ser	Ser	Asn	Val	Ile 135	Gln	Leu	Ile	Ile	Asp 140	Ala	Tyr	Asn	Ser
Leu 145	Ser	Ser	Glu	Val	Ile 150	Leu	Glu	Asn	Gly	Lys 155	Leu	Ser	Glu	Gly	Val 160
Thr	Ile	Ser	Tyr	Lys 165	Ser	Tyr	Cys	Lys	Asn 170	Gly	Val	Asn	Gly	Thr 175	Gly
Glu	Asn	Gly	Arg 180	Lys	Cys	Ser	Asn	Ile 185	Ser	Ile	Gly	Asp	Glu 190	Val	Gln
Phe	Glu	Ile 195	Ser	Ile	Thr	Ser	Asn 200	Lys	Cys	Pro	Lys	Lys 205	Asp	Ser	Asp
Ser	Phe 210	Lys	Ile	Arg	Pro	Leu 215	Gly	Phe	Thr	Gļu	Glu 220	Val	Glu	Val	Ile
Leu 225	Gln	Tyr	Ile	Cys	Glu 230	Cys	Glu	Cys	Gln	Ser 235	Glu	Gly	Ile	Pro	Glu 240
Ser	Pro	Lys	Cys	His 245	Glu	Gly	Asn	Gly	Thr 250	Phe	Glu	Cys	Gly	Ala 255	Cys
Arg	Cys	Asn	Glu	Gly	Arg	Val	_	Arg	His	Cys	Glu	Cys	Ser	Thr	Asp

Glu	Val	Asn 275		Glu	Asp	Met	Asp 280		Tyr	Cys	Arg	Lys 285		Asn	Ser
Ser	Glu 290	Ile	Cys	Ser	Asn	Asn 295	Gly	Glu	Cys	Val	Cys 300	Gly	Gln	Cys	Val
Cys 305	Arg	Lys	Arg	Asp	Asn 310		Asn		Ile			_	Lys		Cys 320
	Cys		Asn -	Phe 325		Cys	Asp		Ser 330		_			_	Gly
Gly	Asn	Gly	Val 340		Lys		Arg	Val 345		Glu	Cys	Asn	Pro 350	Asn	Tyr
Thr	Gly	Ser 355	Ala	Cys	Asp	Cys	Ser 360	Leu	Asp	Thr	Ser	Thr 365	Cys	Glu	Ala
Ser	Asn 370	Gly	Gln	Ile	Cys	Asn 375	Gly	Arg	Gly	Ile	Cys 380	Glu	Суз	Gly	Val
Cys 385	Lys	Cys	Thr	Asp	Pro 390	Lys	Phe	Gln	Gly	Gln 395	Thr	Cys	Glu	Met	Cys 400
Gln	Thr	Cys	Leu	Gly 405	Val	Cys	Ala	Glu	His 410	Lys	Glu	Cys	Val	Gln 415	-
Arg	Ala	Phe	Asn 420	Lys	Gly	Glu	Lys	Lys 425	Asp	Thr	Cys	Thr	Gln 430	Glu	Cys :
ser	Tyr	Phe 435	Asn	Ile	Thr	Lys	Val 440	Glu	Ser	Arg	Asp	Lys 445	Leu	Pro	Gln
Pro	Val 450	Gln	Pro	Asp	Pro	Val 455	Ser	His	Cys	Lys	Glu 460	Lys	Asp	Val	Asp
Asp 465	Cys	Trp	Phe	Tyr	Phe 470	Thr	Tyr	Ser	Val	Asn 475	Gly	Asn	Asn	Glu	Val 480
Met:	Val	His	Val	Val 485	Glu	Asn	Pro	Glu	Cys 490	Pro	Thr	Gly	Pro	Asp 495	Ile
Ile	Pro	Ile	Val 500	Ala	Gly	Val	Val	Ala 505	Gly	Ile	Val	Leu	Ile 510	Gly	Leu
Ala	Leu	Leu 515	Leu	Ile	Trp	Lys	Leu 520	Leu	Met	Ile	Ile	His 525	Asp	Arg	Arg
Glu	Phe 530	Ala	Lys	Phe		Lys 535	Glu	Lys	Met	Asn	Ala 540	Lys	Trp	Asp	Thr

Gly Glu Asn Pro Ile Tyr Lys Ser Ala Val Thr Thr Val Val Asn Pro 545 550 560

Lys Tyr Glu Gly Lys 565

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<211> 138

<212> PRT

<213> Homo sapiens

<400> 1164

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Arg Ala Ile Pro Ala Thr Arg Arg Val Val Leu Gly Asp Gly Val Gln
35 40 45

Leu Pro Pro Gly Asp Tyr Ser Thr Thr Pro Gly Gly Thr Leu Phe Ser 50 55 60

Thr Thr Pro Gly Gly Thr Arg Ile Ile Tyr Asp Arg Lys Phe Leu Met 65 70 75 80

Glu Cys Arg Asn Ser Pro Val Thr Lys Thr Pro Pro Arg Asp Leu Pro 85 90 95

Thr Ile Pro Gly Val Thr Ser Pro Ser Ser Asp Glu Pro Pro Met Glu
100 105 110

Ala Ser Gln Ser His Leu Arg Asn Ser Pro Glu Asp Lys Arg Ala Gly
115 120 125

Gly Glu Glu Ser Gln Phe Glu Met Asp Ile 130 135

<210> 1165

<211> 407

<212> PRT

<213> Homo sapiens

<400> 1165

Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala

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Pro	Ala	Thr 35			Asp		Arg 40	Arg	y Val	L Pro	Glr	Lys 45			1 Arg
Val	Lys 50	Lys	Asn	Leu	Lys	Lys 55	Phe	Arg	Туг	. Val	Lys 60	Leu	ı Ile	Ser	Met
G1u 65	Thr	Ser	Ser	Ser	Ser 70	Asp	Asp	Ser	Cys	Asp 75	Ser 79	Phe	: Ala	Ser	Asp 80
Asn	Phe	Ala	Asn	Thr 85	Arg	Leu	Gln	Ser	Val 90	. Arg	Glu	Gly	Cys	Arg	Thr
Arg	Ser	Gln	Cys 100	Arg	His	Ser	Gly	Pro 105	Leu	Arg	Val	Ala	Met 110	_	Phe
Pro	Ala	Arg 115	Ser	Thr	Arg	Gly	Ala 120	Thr	Asn	Lys	Lys	Ala 125	Glu	Ser	Arg
Gln	Pro 130	Ser	Glu	Asn	Ser	Val 135	Thr	Asp	Ser	Asn	Ser 140	Asp		Glu	Asp
Glu 145	Ser	Gly	Met	Asn	Phe 150	Leu 	Glu	Lys	Arg	Ala 155	Leu	Asn	Ile	Lys	Gln 160
Asn	Lys	Ala	Met	Leu 165	Ala	Lys	Leu	Met	Ser 170	Glu	Leu	Glu	Ser	Phe 175	Pro
Gly	Ser	Phe	Arg 180	Gly	Arg	His	Pro 	Leu 185	Pro	Gly	Ser	Asp	Ser 190	Gln	Ser
Arg	Arg		Arg					Pro	Gly	Val	Ala	Ser 205	Arg	Arg	Asn
Pro			Arg	Ala	Arg	Pro 215	Leu	Thr	Arg	Ser	Arg 220	Ser	Arg	Ile	Leu
Gly 225	Ser		Asp	Ala	Leu 230	Pro	Met	Glu	Glu	Glu 235	Glu	Glu	Glu	Asp	Lys 240
Tyr	Met	Leu	Val	Arg 245	Lys	Arg	Lys	Thr		Asp			Met	Asn 255	Glu
			Pro 260								Ser		Thr 270	Leu	Pro
lis :	Ile	Ile	Arg :	Pro	Val (Glu	Glu	Ile	Thr	Glu	Glu	Glu	Leu	Glu	Asn

275 280 285 Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser 290 295 300 Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys 310 315 Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys 325 330 Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro 340 Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys 360 Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala 370 375 Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys 390 395 Gln Glu Phe Glu Met Gln Ala 405 <210> 1166 <211> 240 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (197) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (201) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (202) <223> Xaa equals any of the naturally occurring L-amino acids <220>

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Glu	ту	r A	la	Gln 20		Ala	Leu	Arg	Lys 25		s Lys	Asp	Leu	Leu 30	-	Lys
Arg	ту		le 35					40			a Ala		45		Gln	Val
Leu	As:		rg		Ser		Ala 55	Pro	Leu	Ile	Pro	Leu 60	Pro	Thr	Pro	Pro
Ile 65	Il		ro	Val	Leu	Pro 70	Gln	Gln	Phe	Val	Pro 75		Thr	Asn	 Val	Arg 80
Asp	Cy:	s Il	le					Leu			Ala	Ala	Thr	Ile	Glu 95	Asp
Ile	Lei	1 As	ъp	Phe	Leu	Gly	Glu	Phe	Ala 105	Thr	Asp	Ile	Arg	Thr 110	His	Gly
Val	His	5 Me		Val	Leu	Asn	His	Gln 120	Gly	Arg	Pro	Ser	Gly 125	Asp	Ala	Phe
Ile	Gl:		ŧ	Lys	Ser	Ala	Asp 135		Ala	Phe	Met	Ala 140	Ala	Gln	Lys	Cys
His 145	Lys	Ly	'5	Asn	Met	Lys 150	Asp	Arg	Tyr	Val	Glu 155	Val	Phe	Gln	Cys	Ser 160
Ala	Glu	G1	u	Met	Asn 165	Phe	Val	Leu	Met	Gly 170	Gly	Thr	Leu	Asn	Arg 175	Asn
Gly	Lev	se	r	Pro 180	Pro	Pro	Cys	Leu	Ser 185	Pro	Pro	Ser	Tyr	Thr 190	Phe	Pro
Ala	Pro	19		Ala	Xaa	Ile	Pro	Thr 200	Xaa	Xaa	Ala	Ile	Tyr 205	Gln	Pro	Ser
Val	Il∈ 210		u	Asn	Pro	Arg	Ala 215	Leu	Gln	Pro	Xaa	Thr 220	Ala	Tyr	Tyr	Pro
Ala 225	Gly	Th		Gln		Phe 230	Met	Asn	Tyr	Thr	Ala 235	Tyr	туr	Pro	Ser	Val 240